

FIG. 1

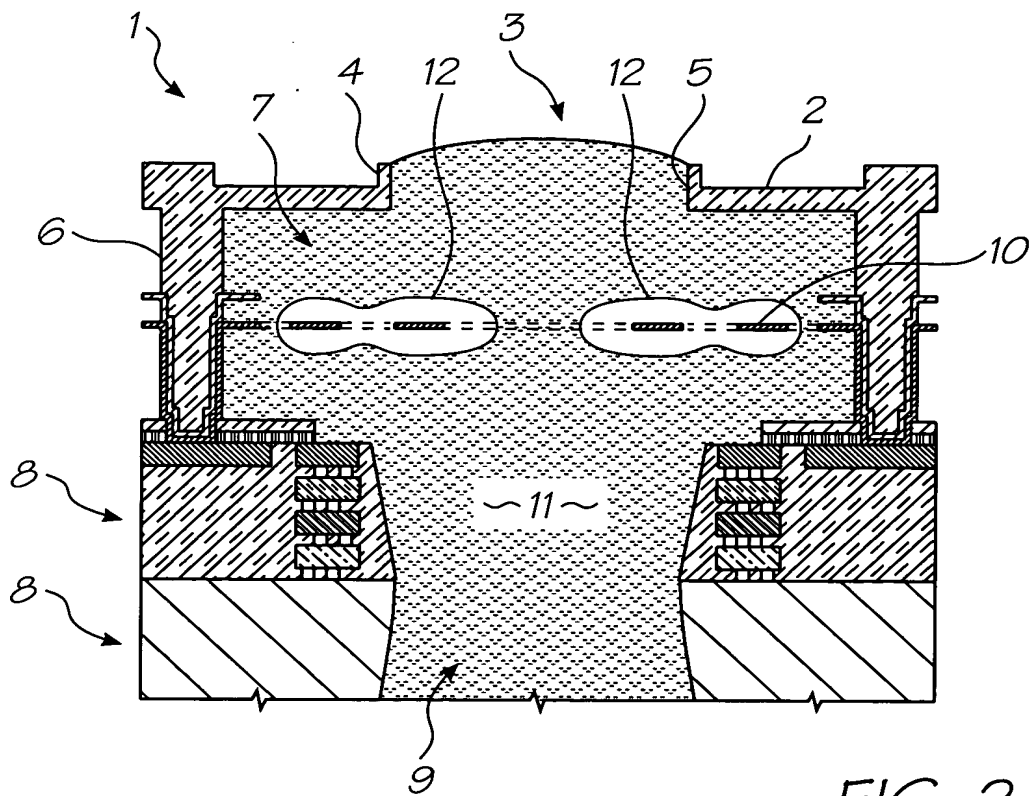


FIG. 2

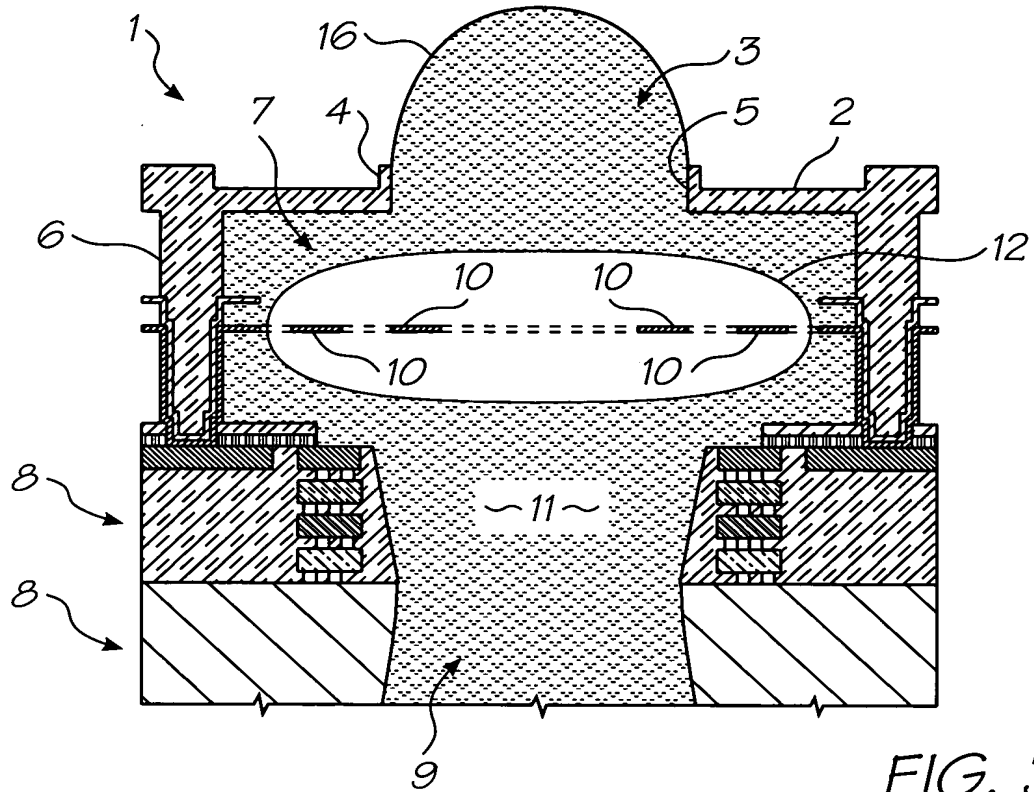


FIG. 3

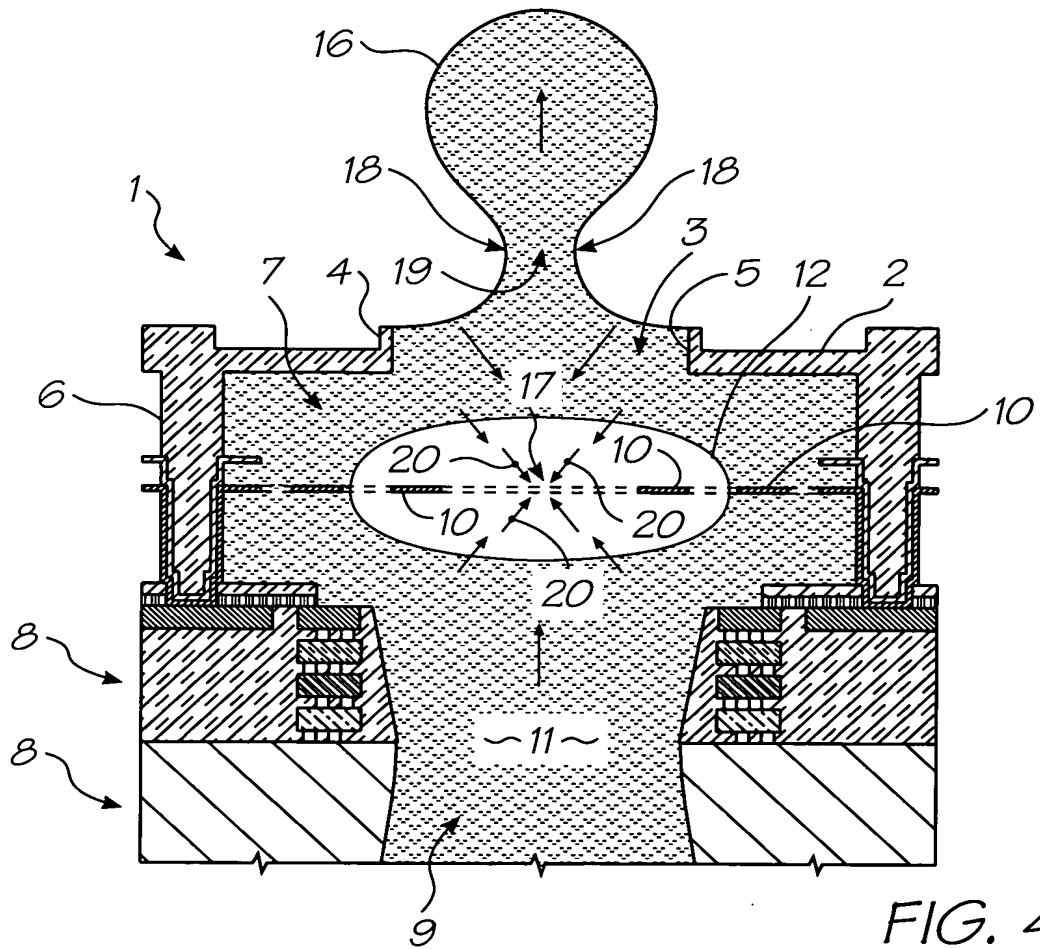
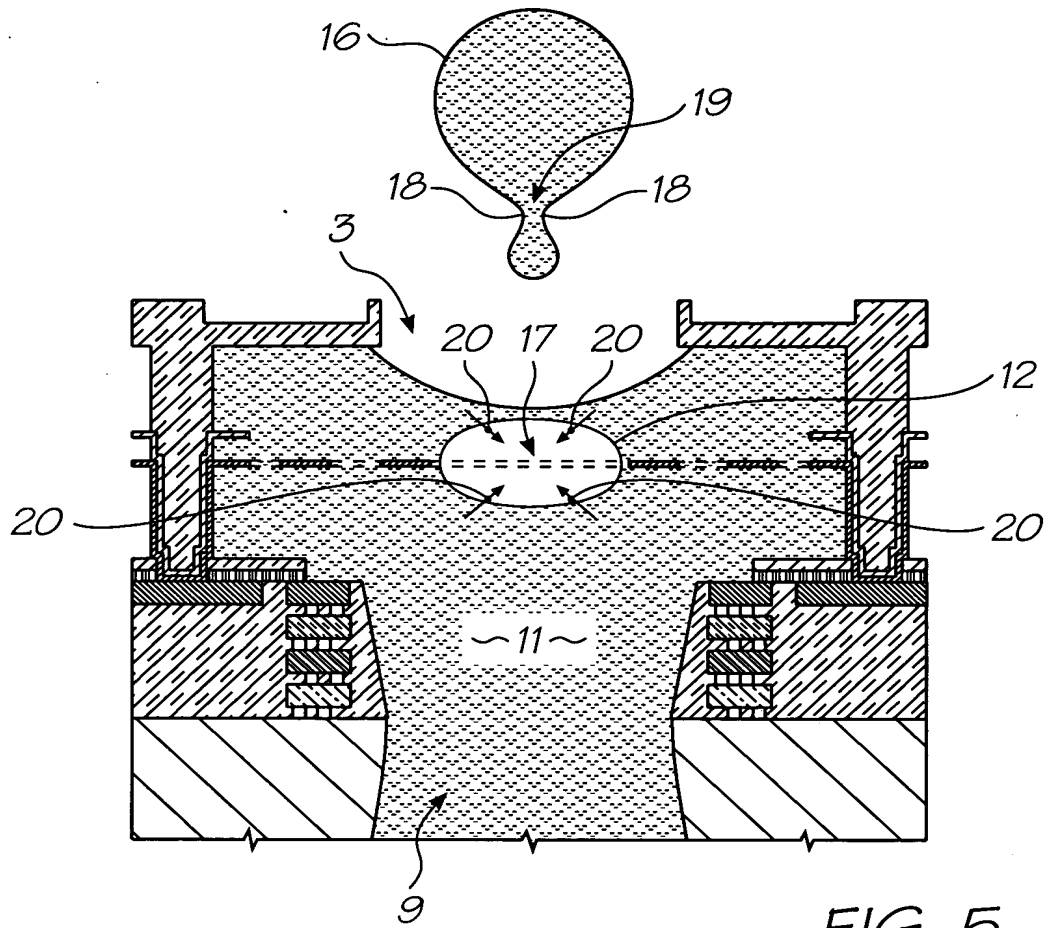


FIG. 4



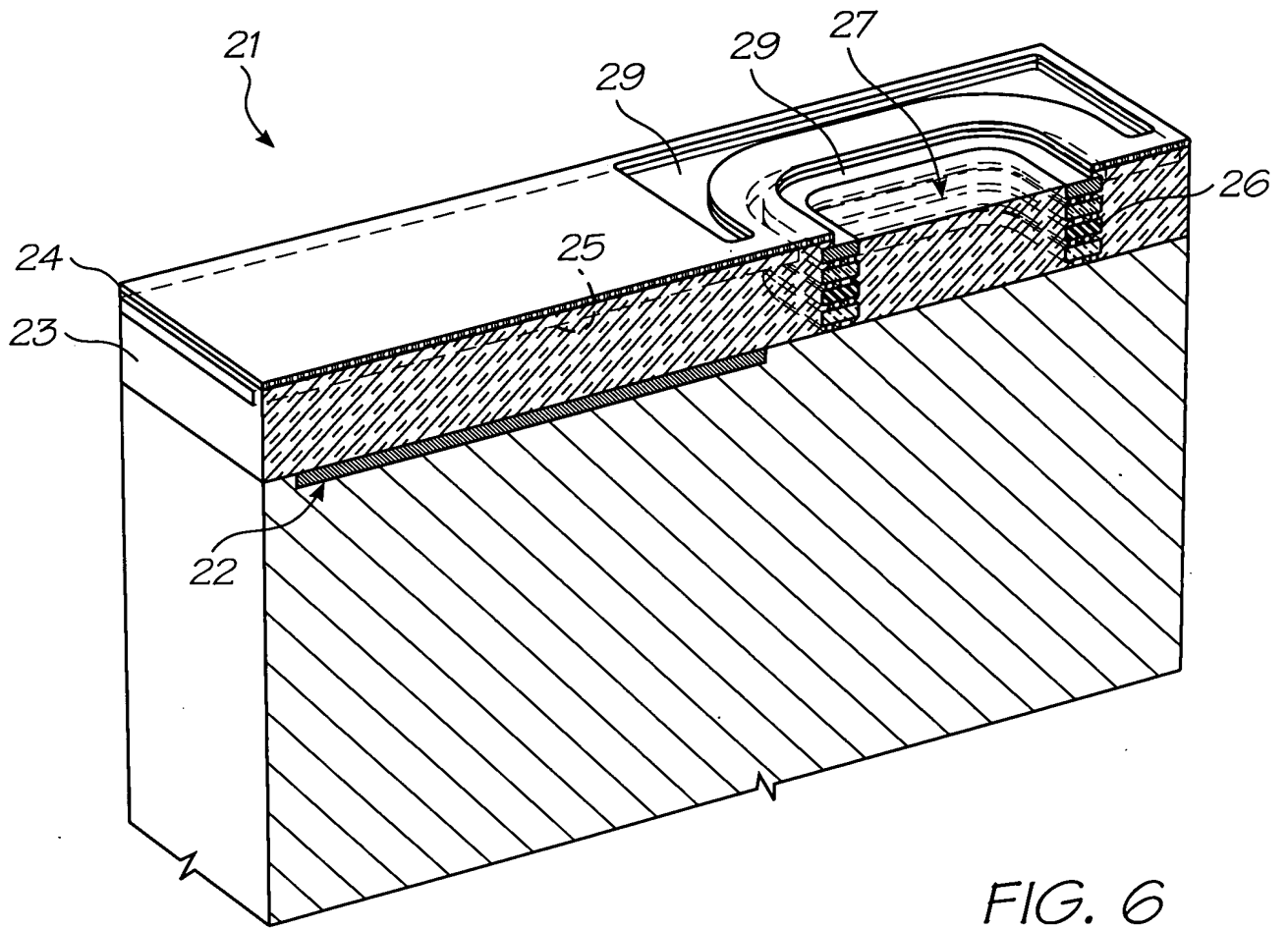


FIG. 6

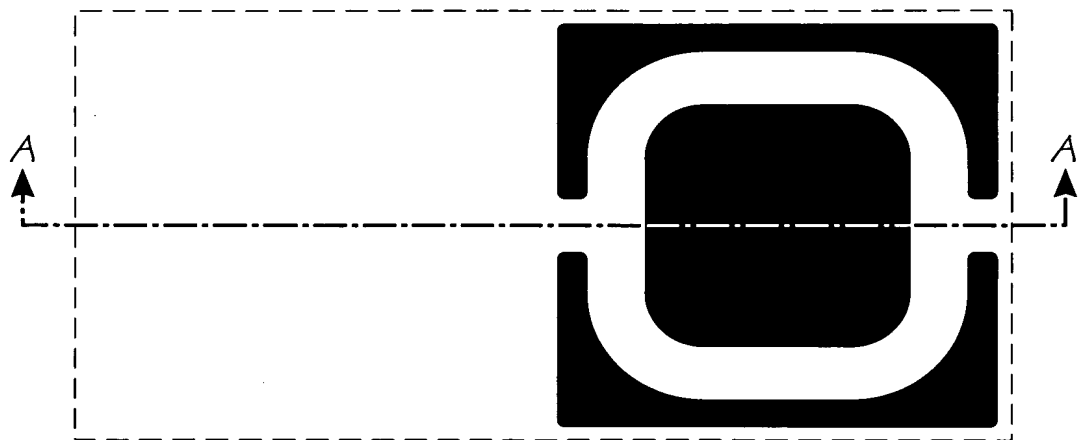


FIG. 7

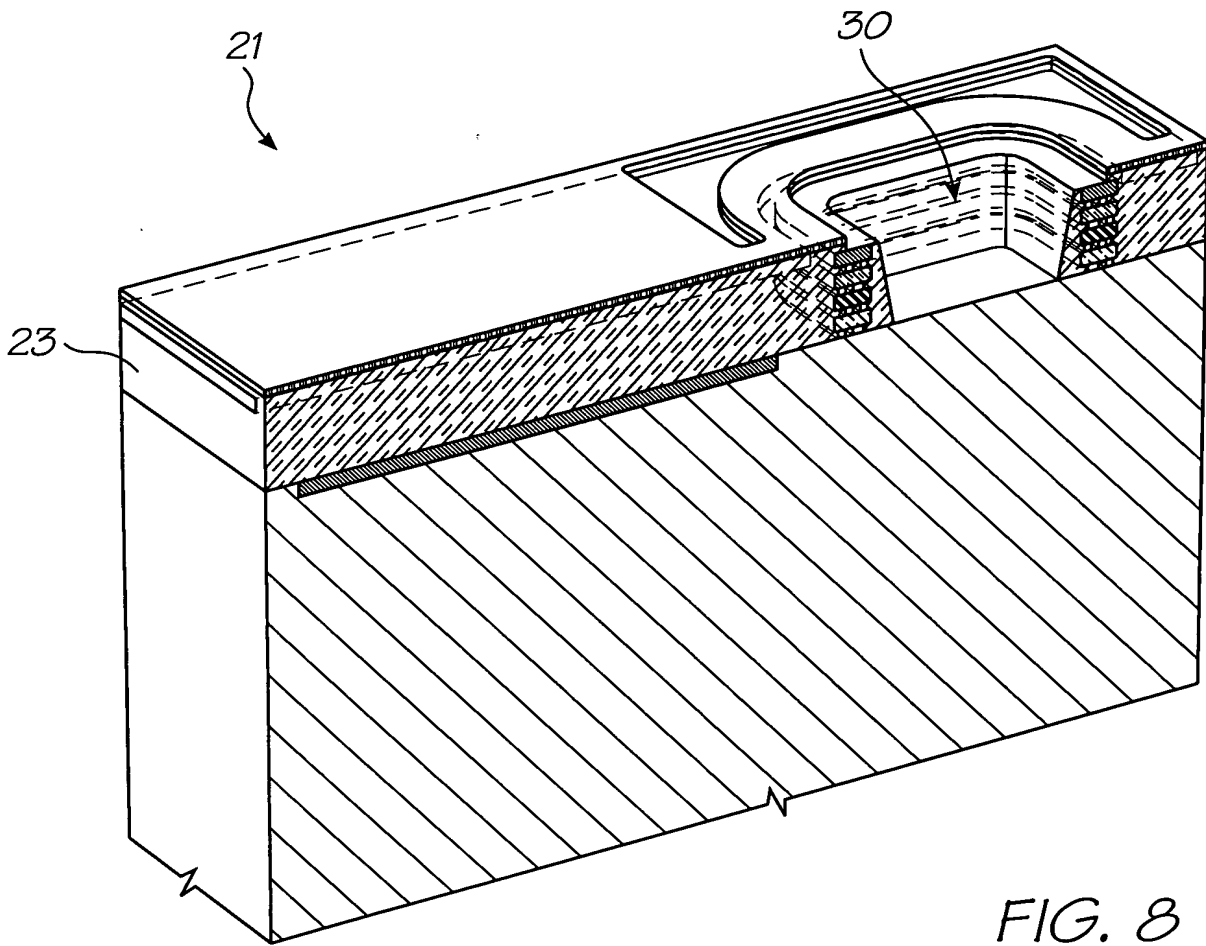


FIG. 8

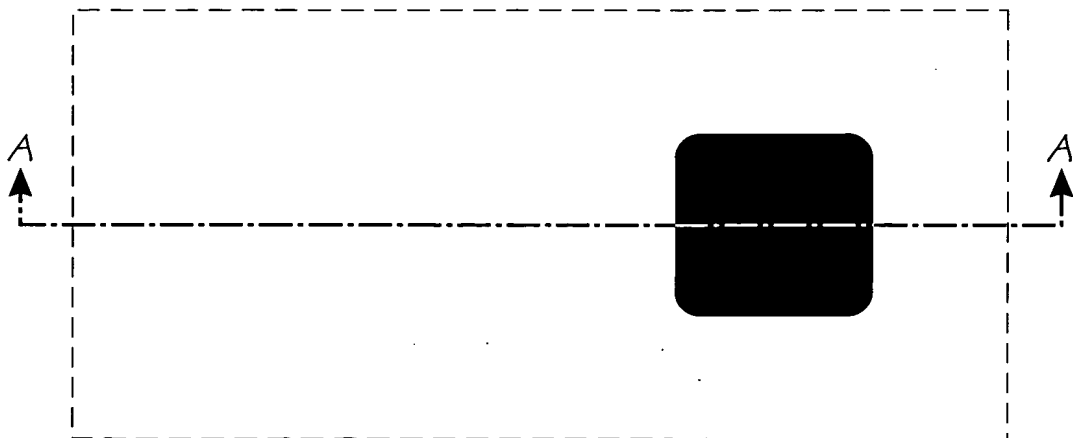


FIG. 9

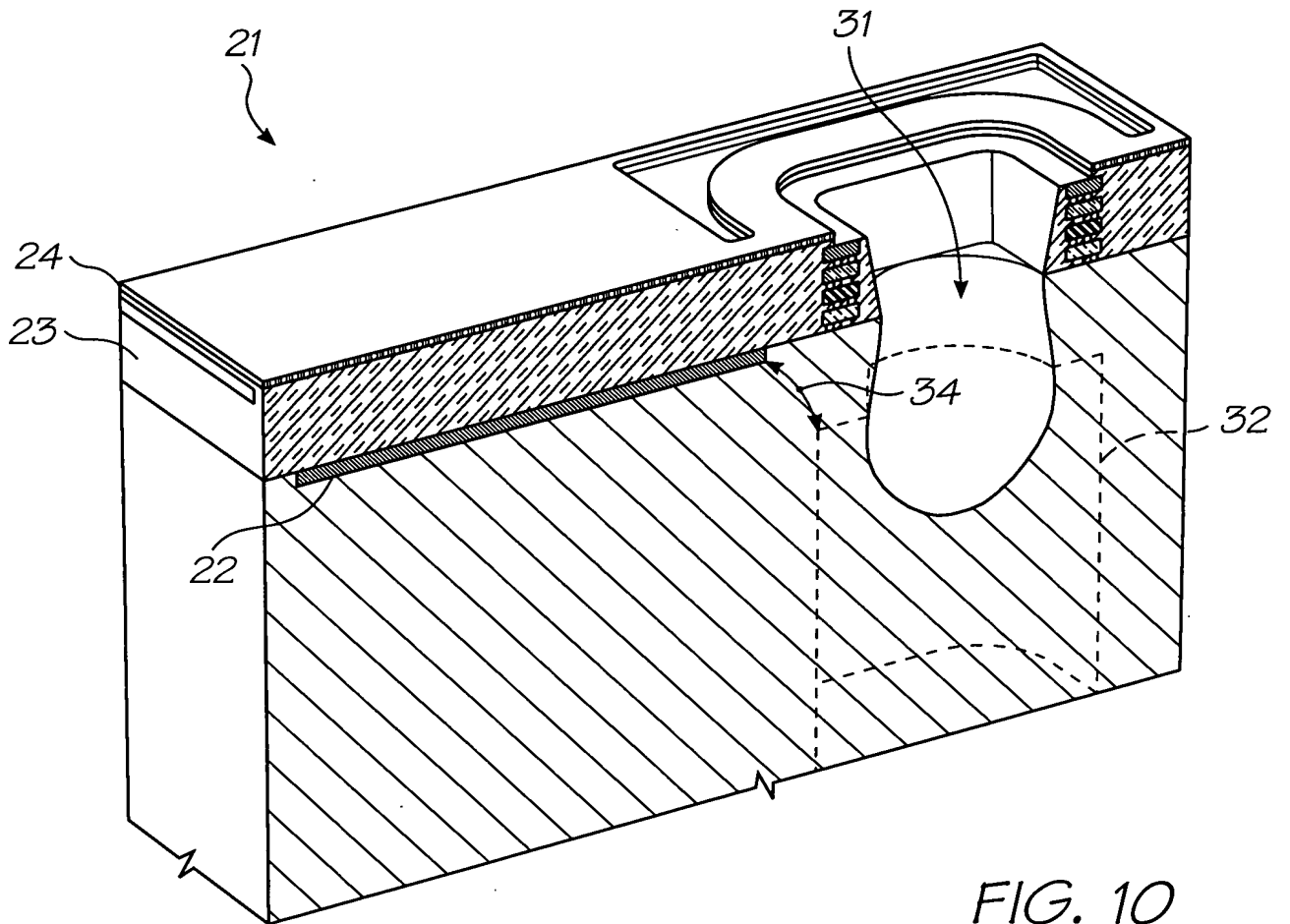


FIG. 10

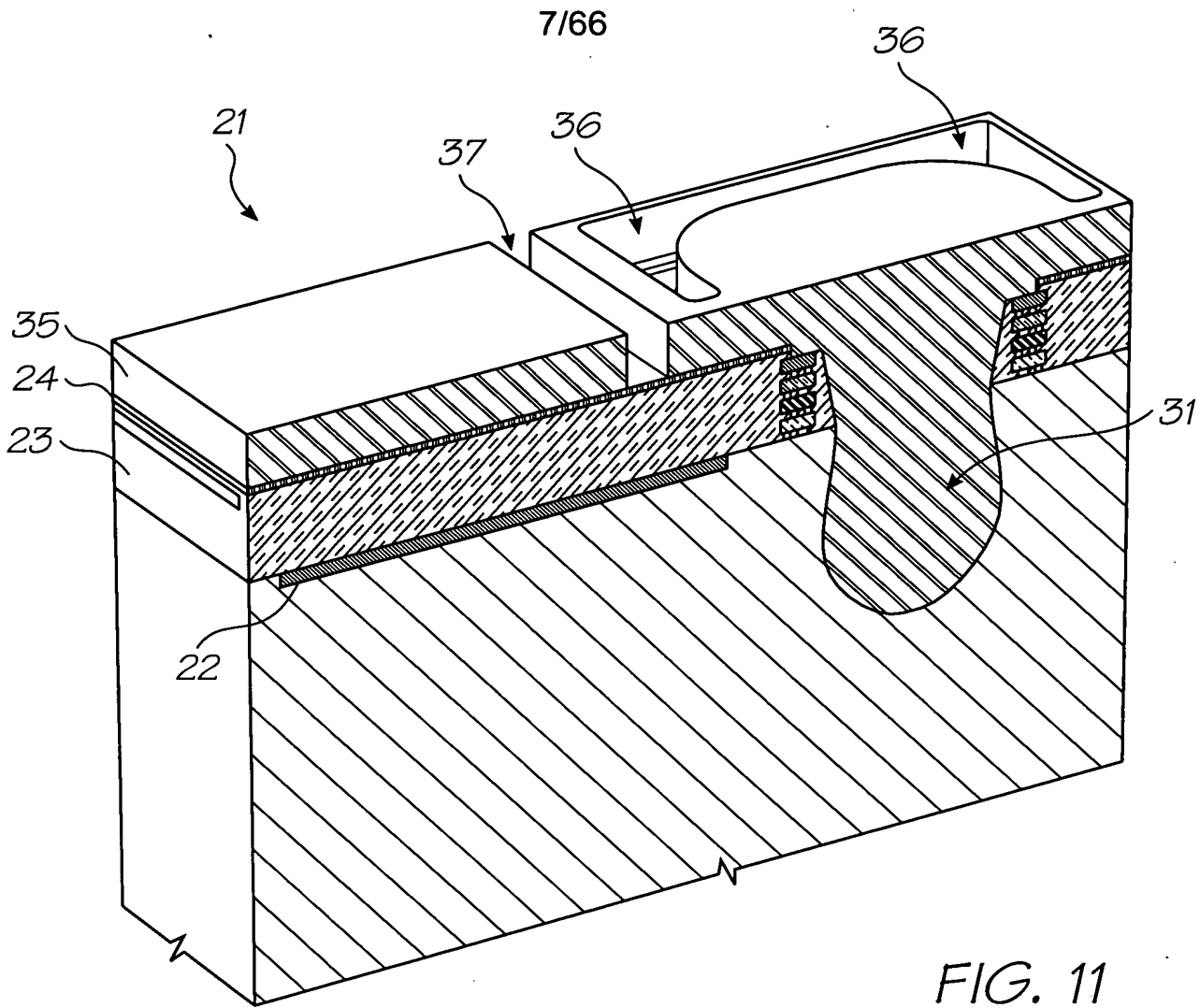


FIG. 11

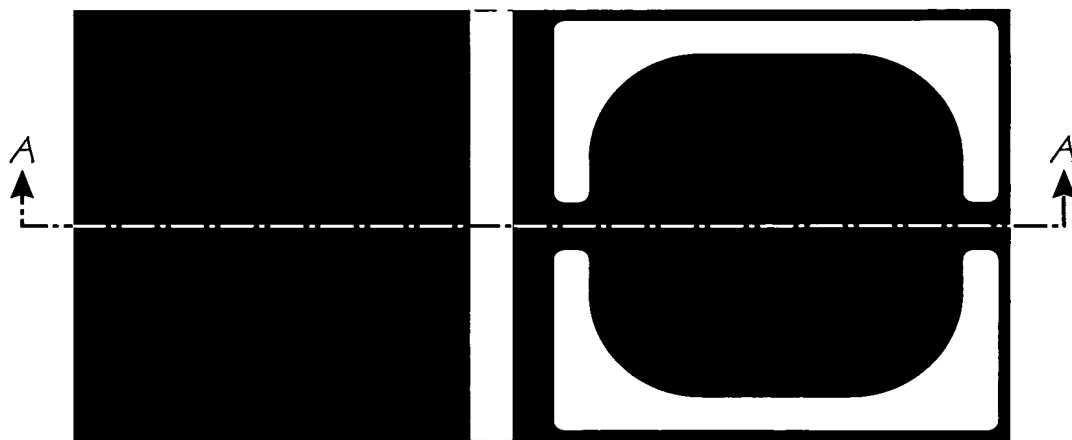


FIG. 12

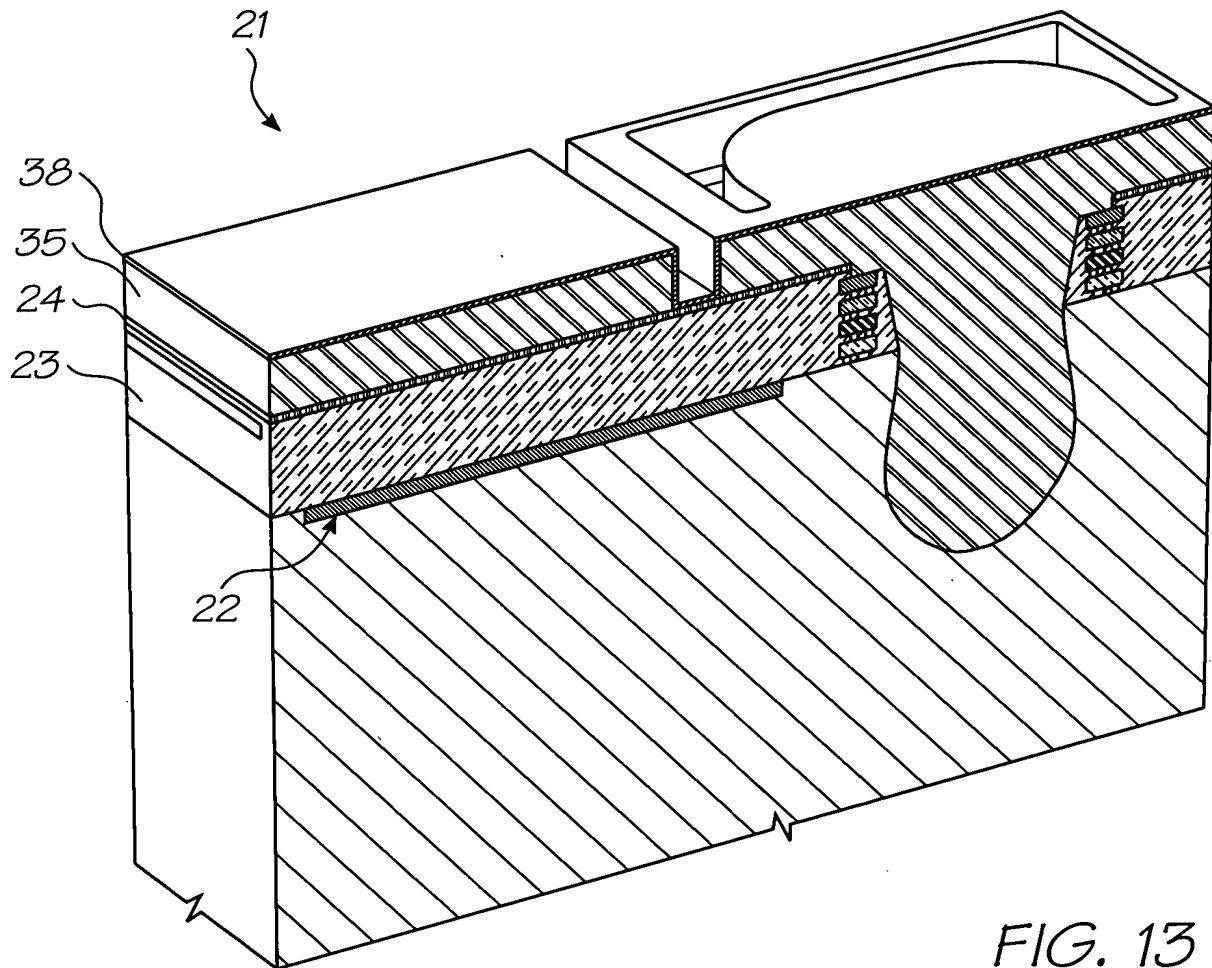
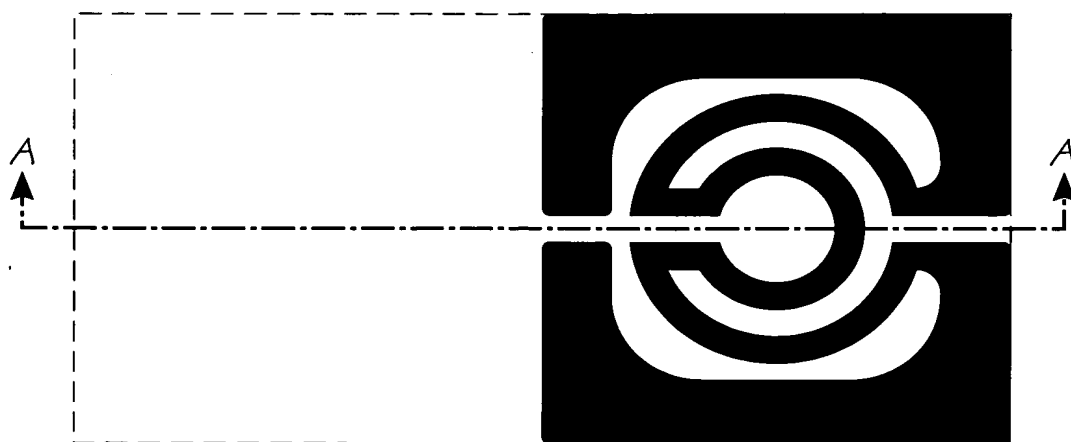
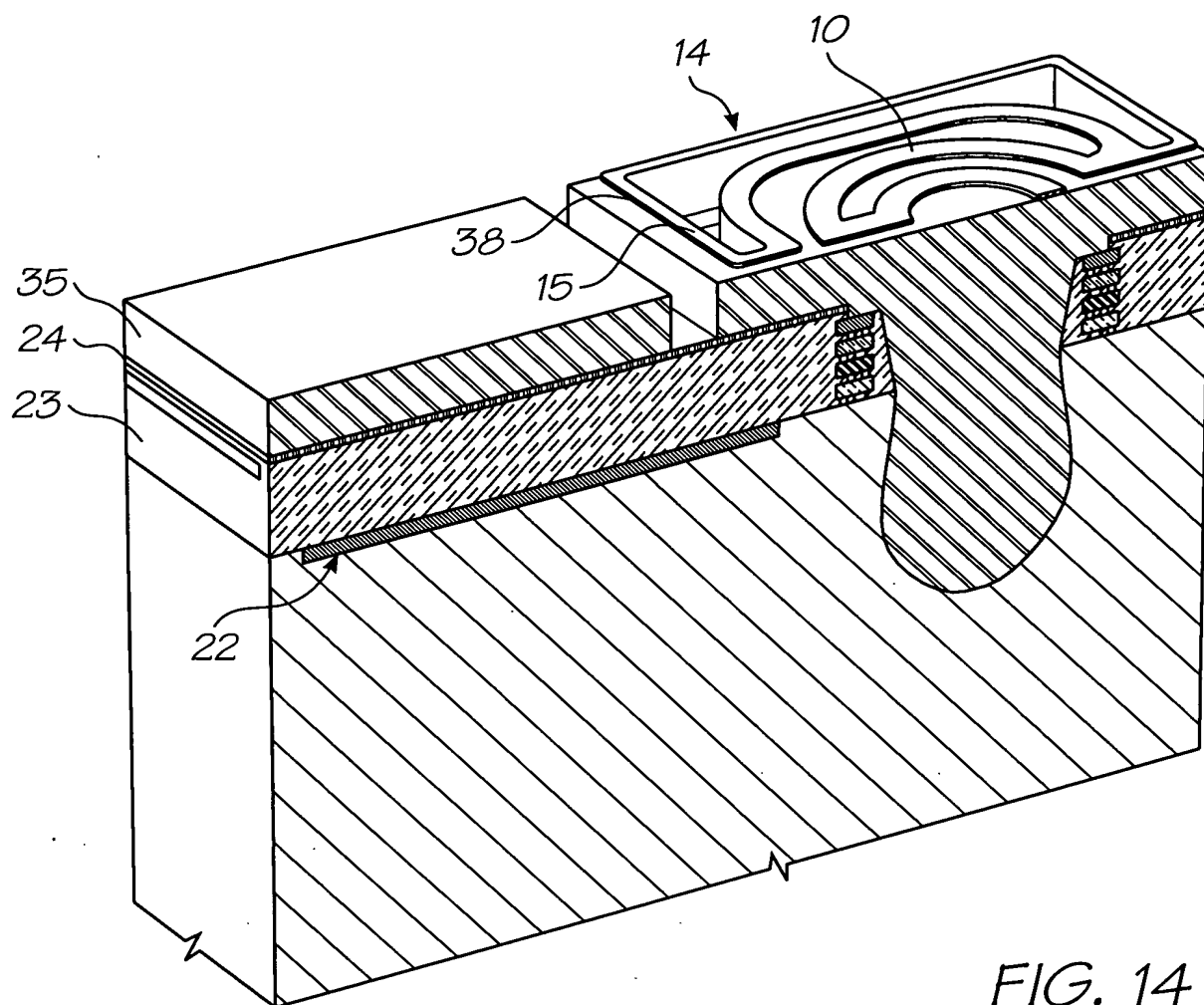


FIG. 13

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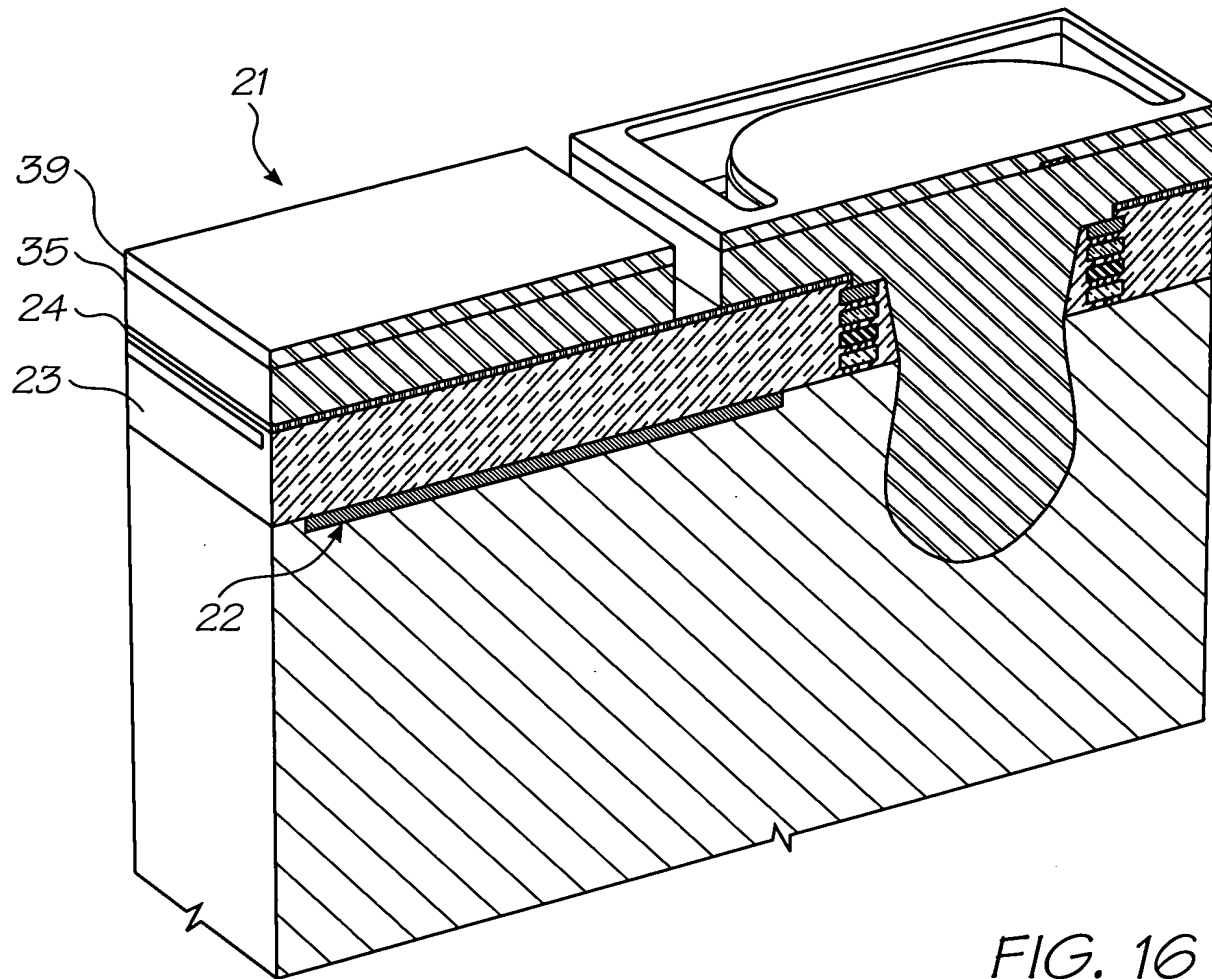


FIG. 16

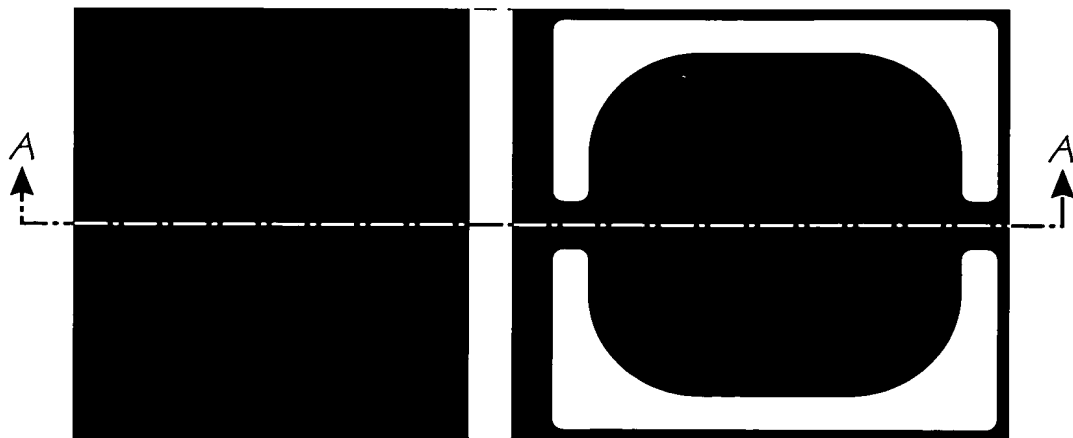
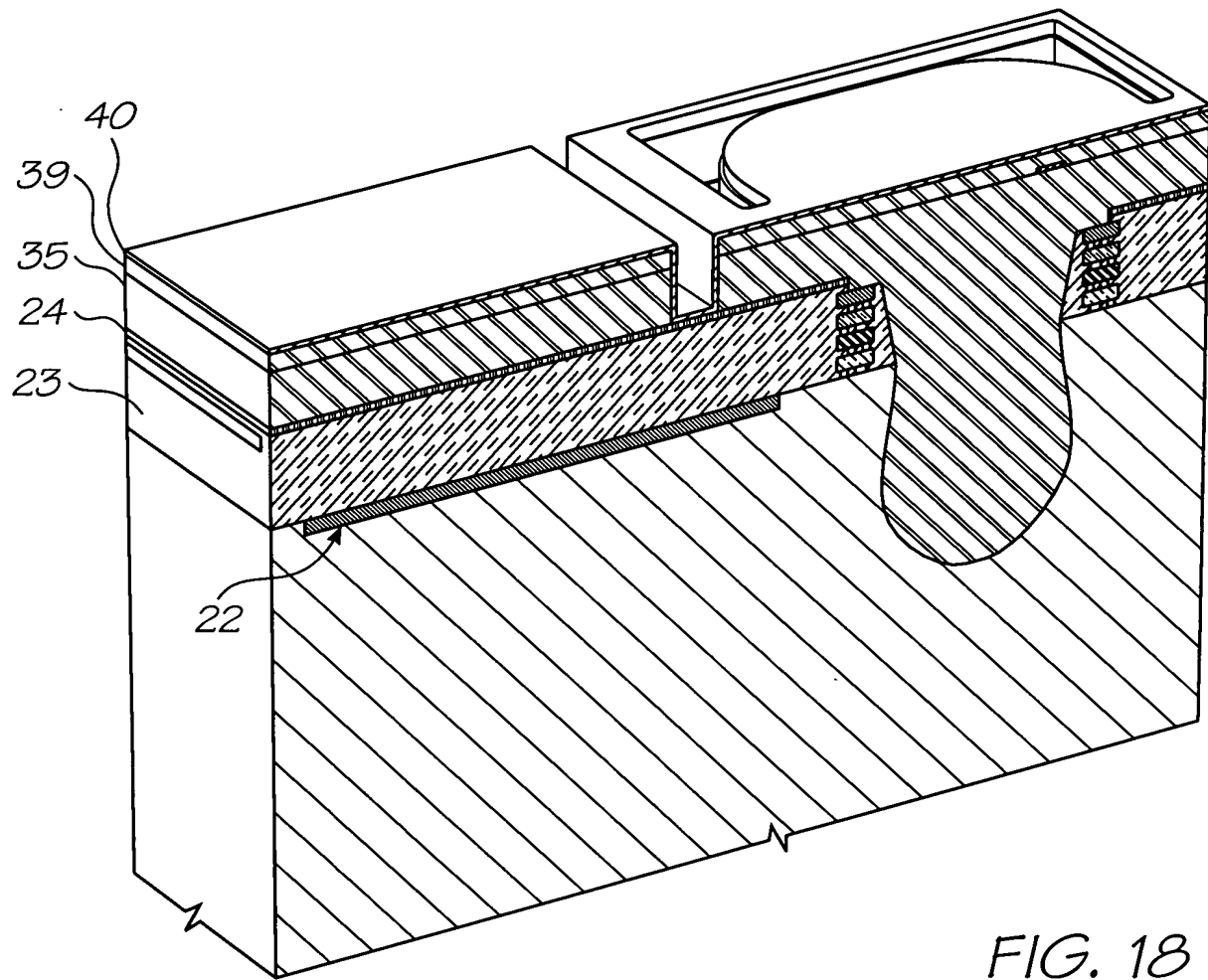


FIG. 17



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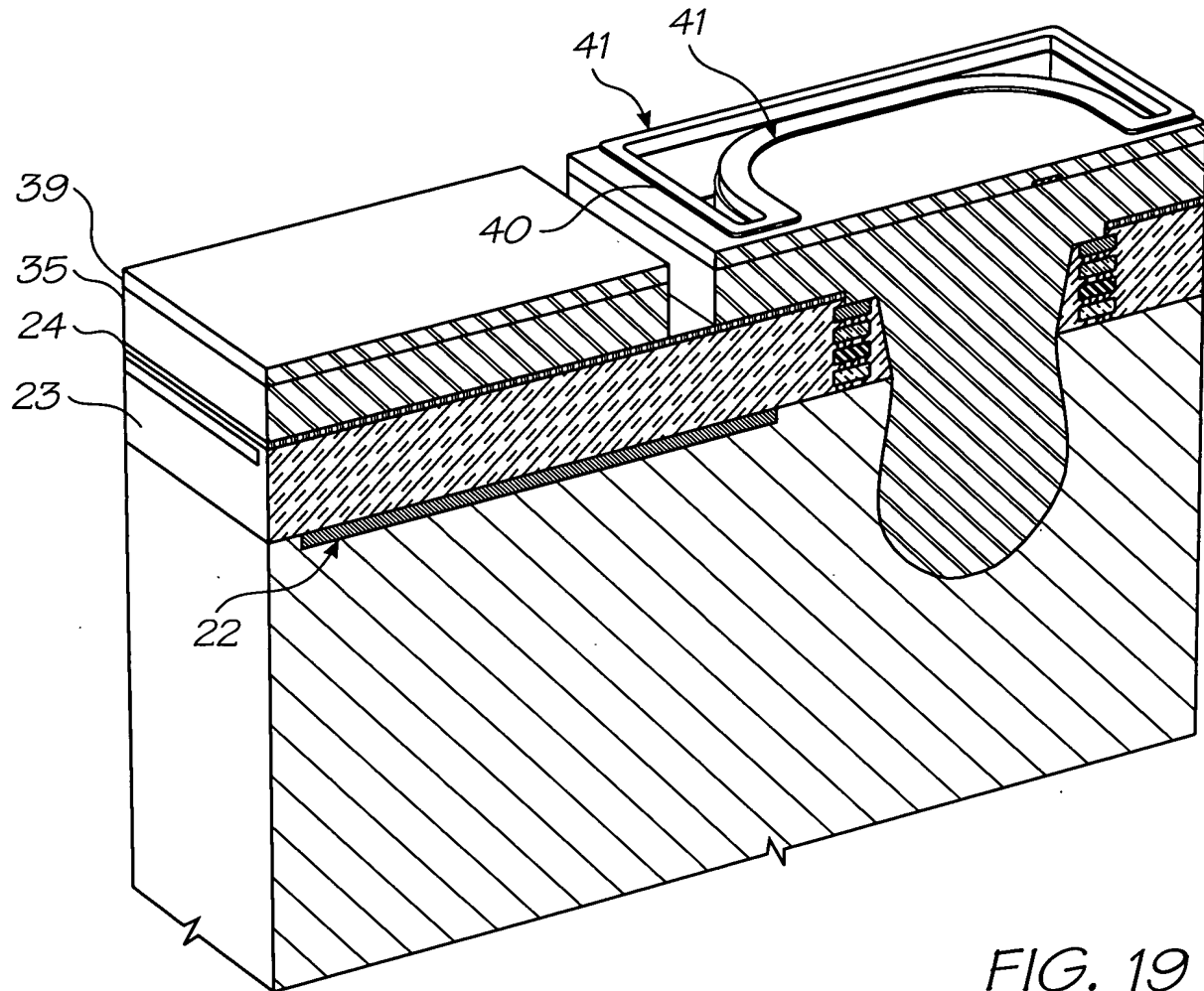
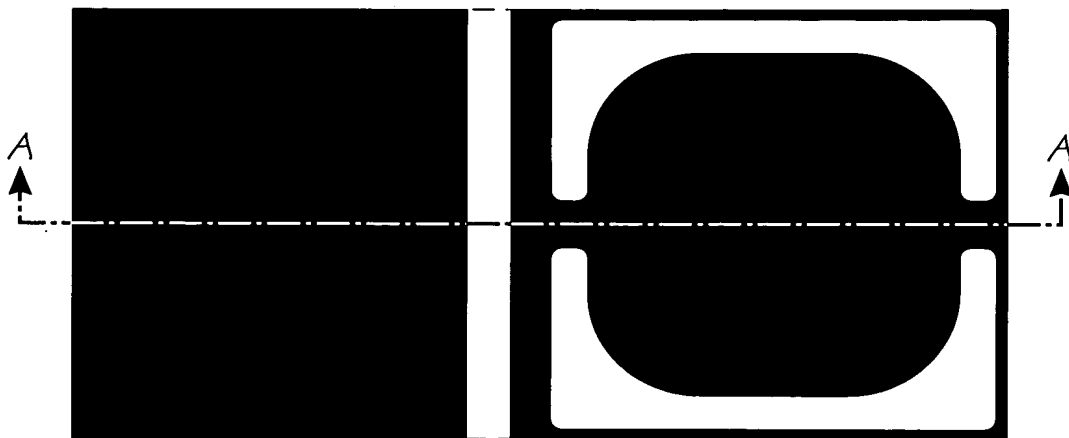
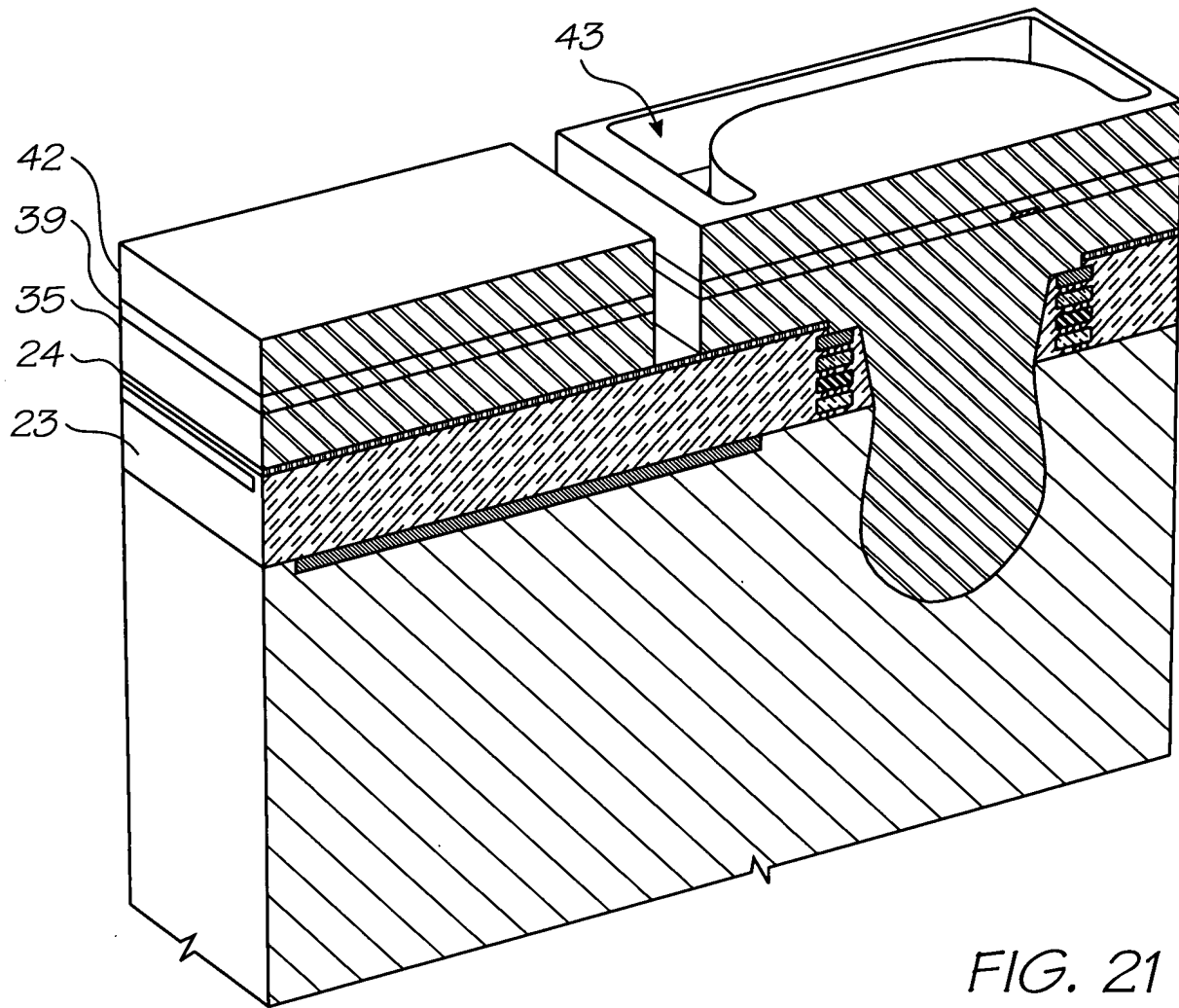


FIG. 19



FIG. 20

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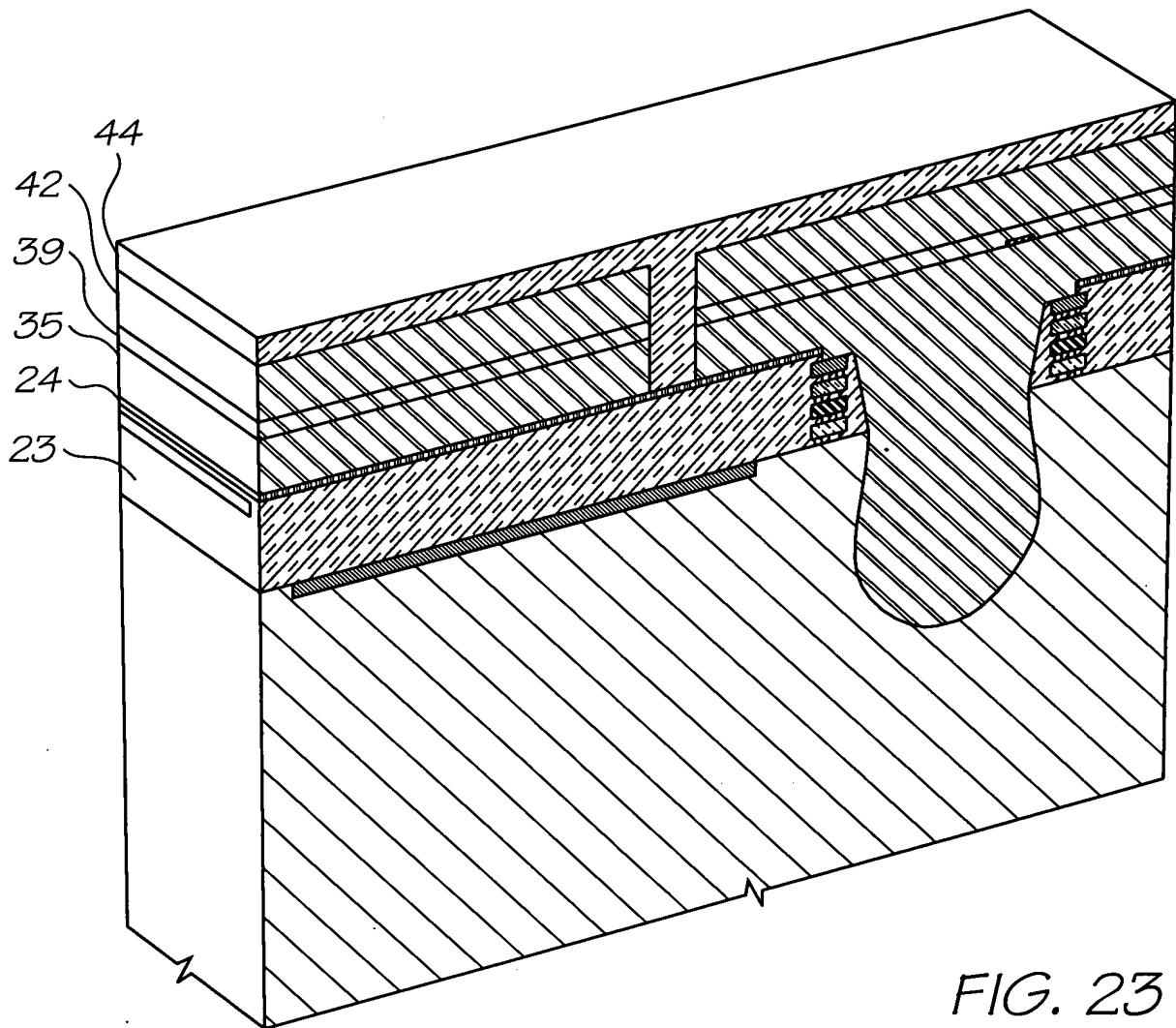
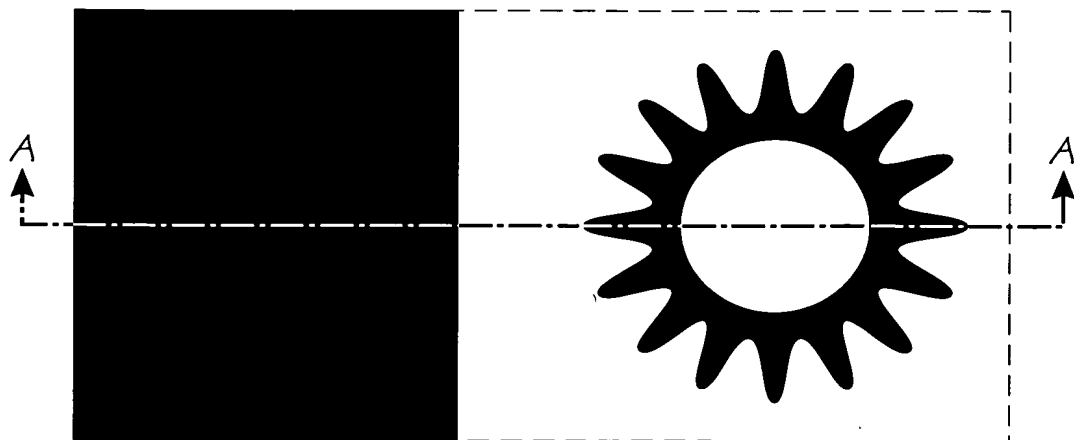
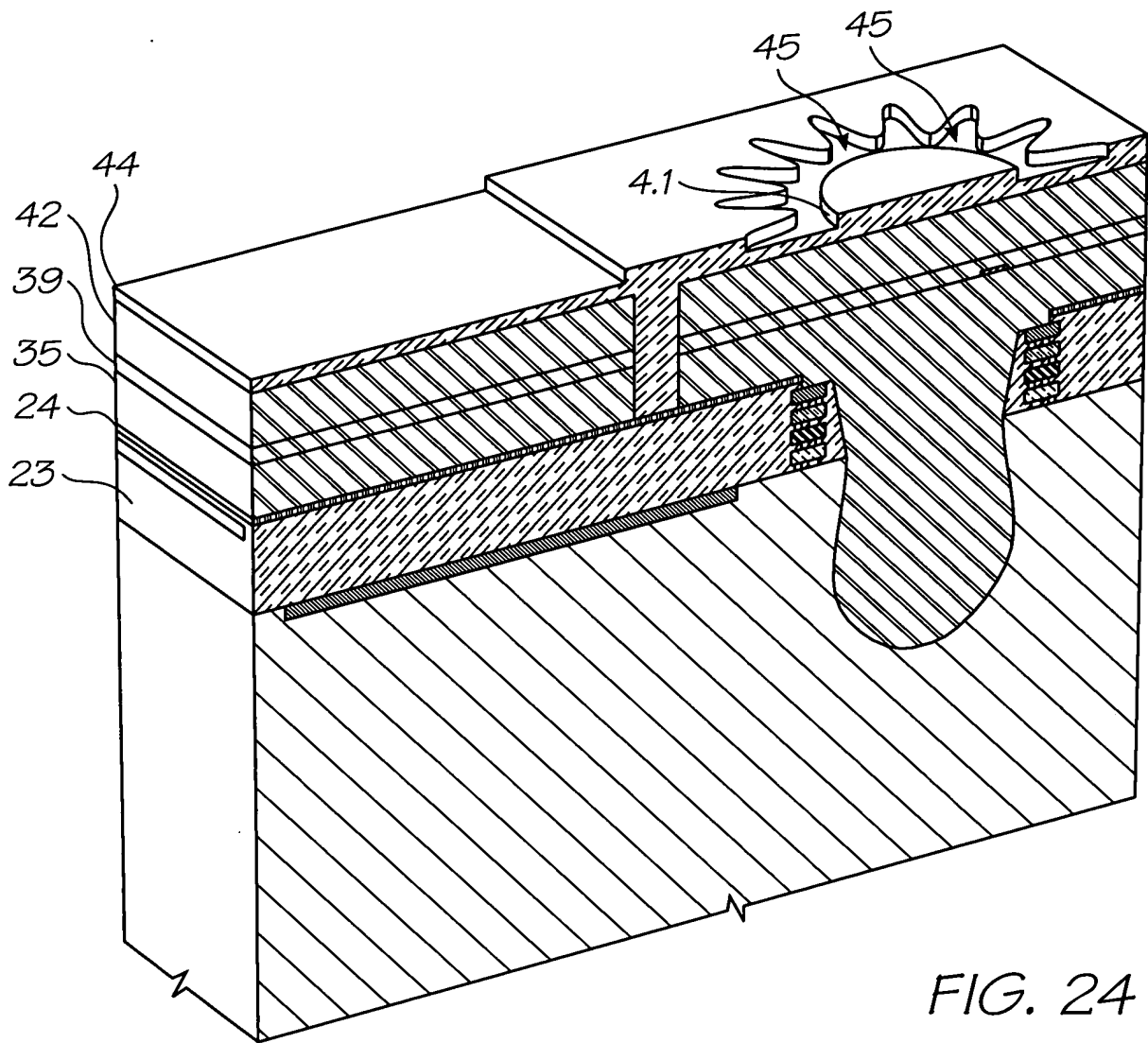
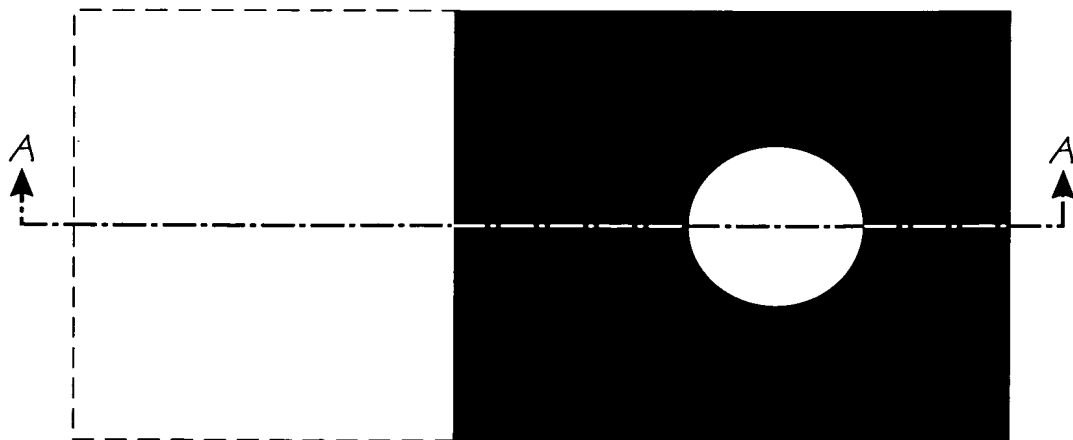
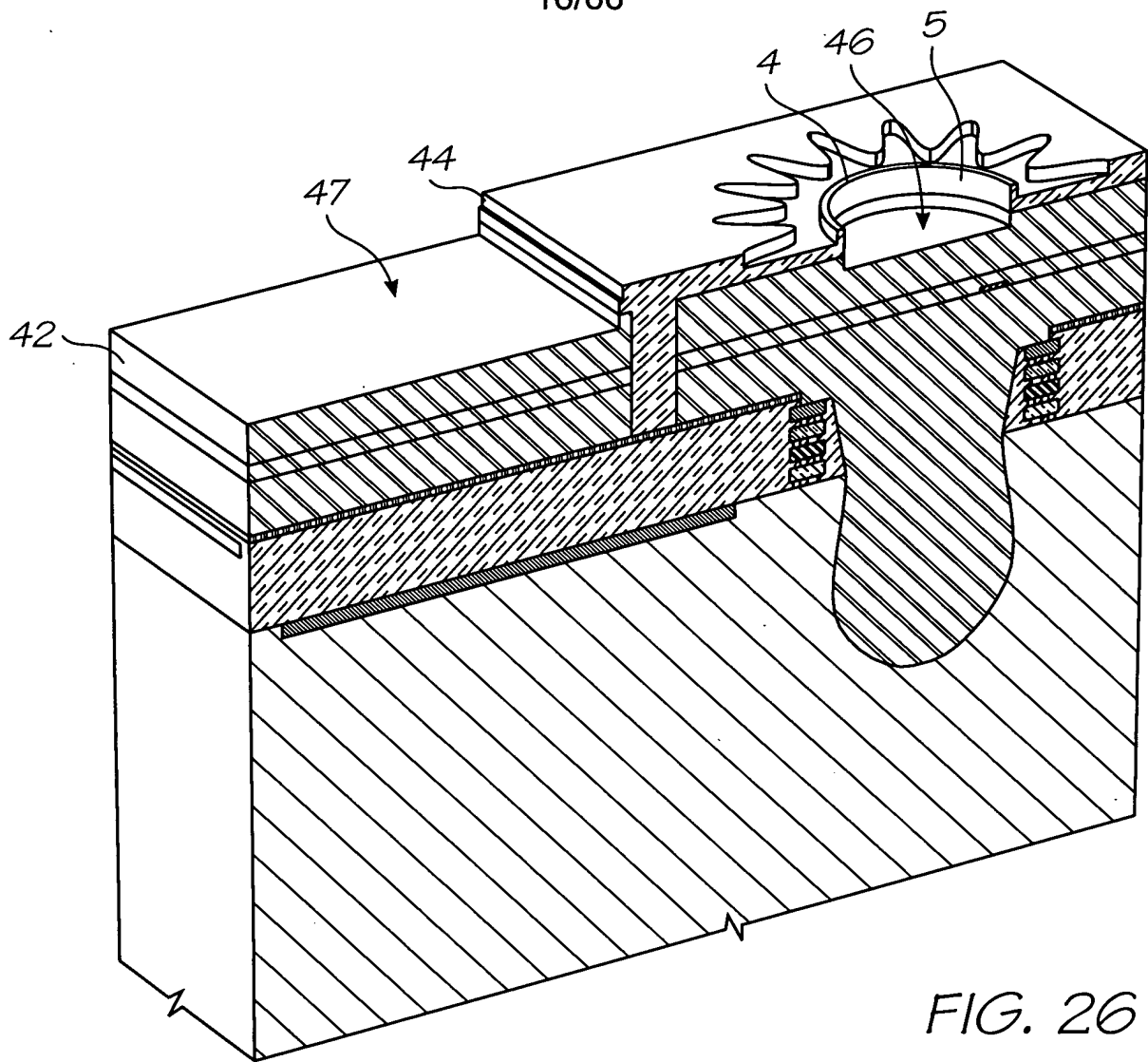
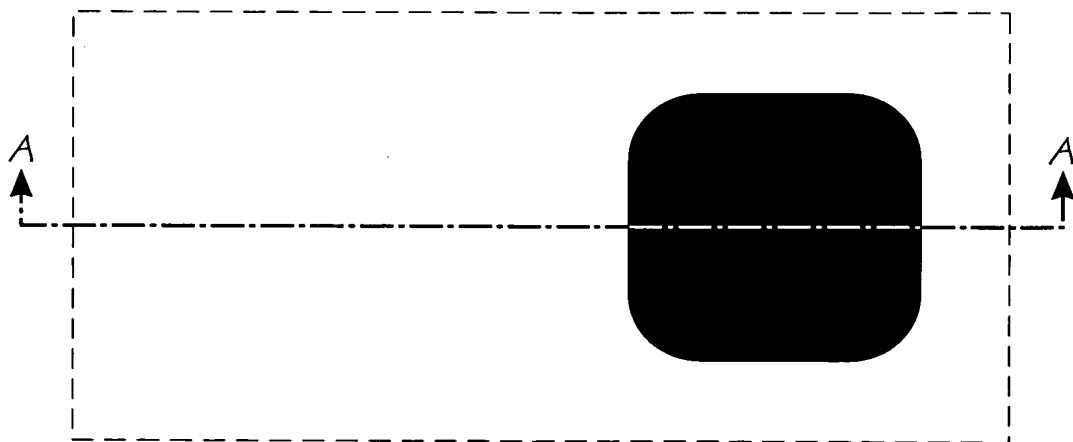
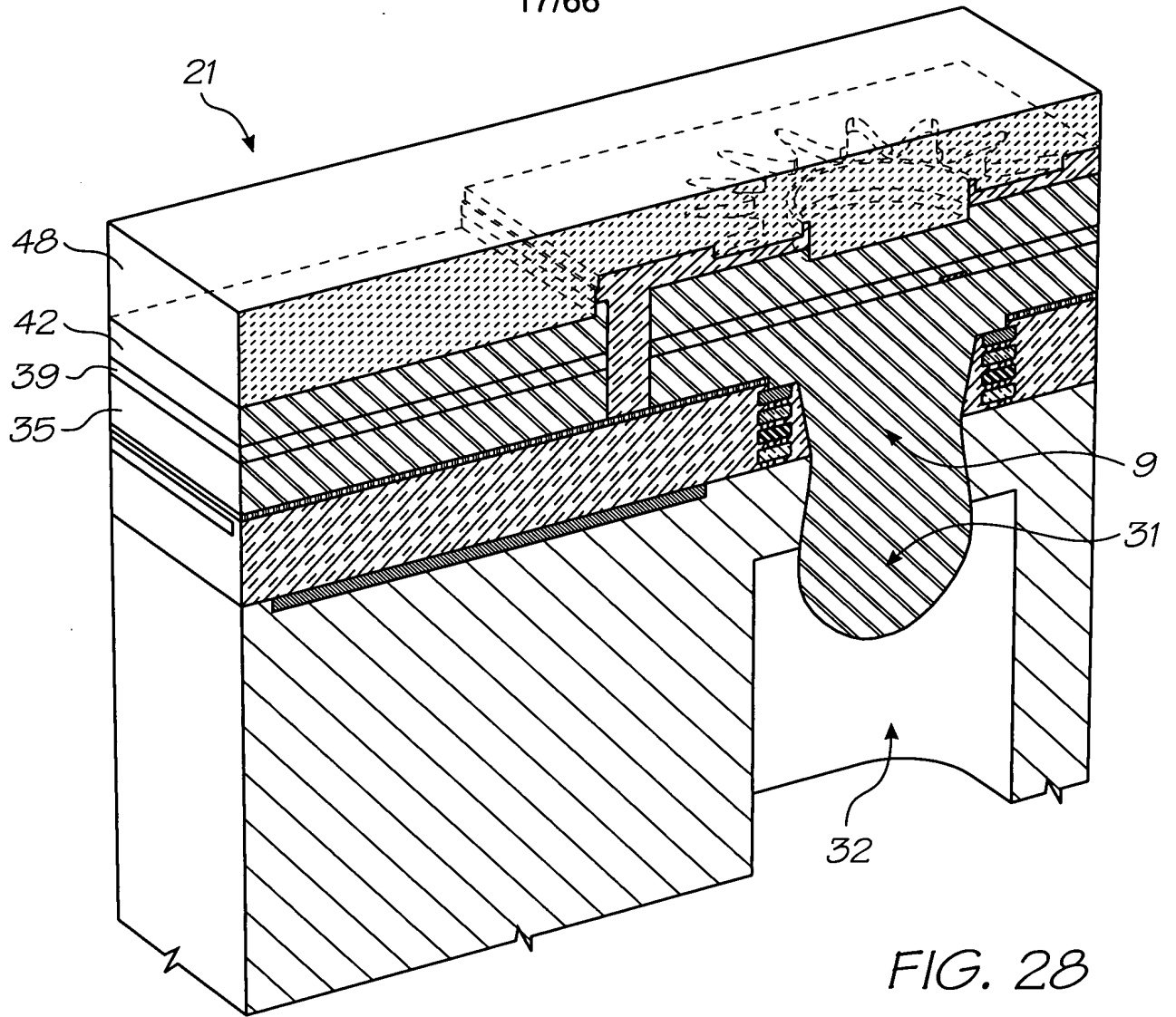
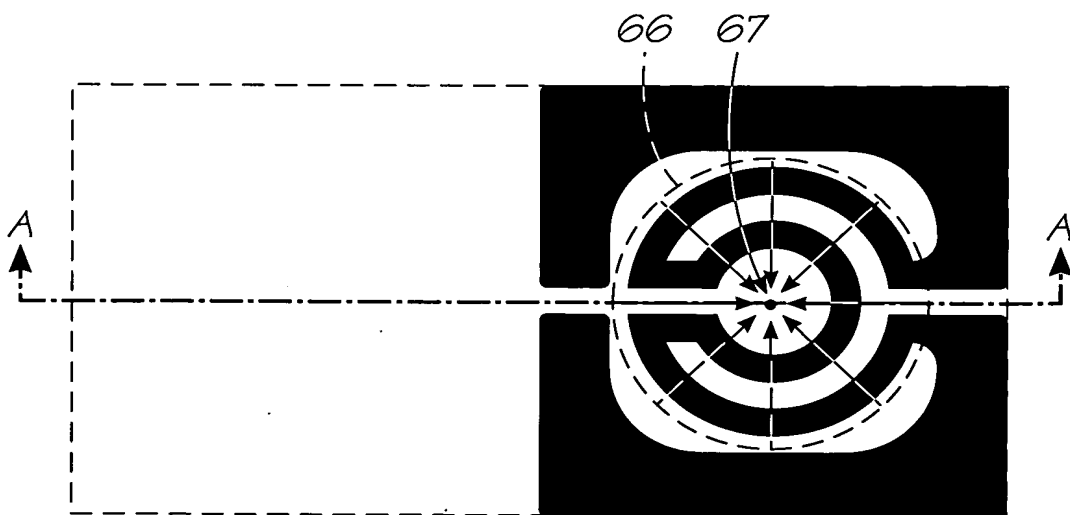
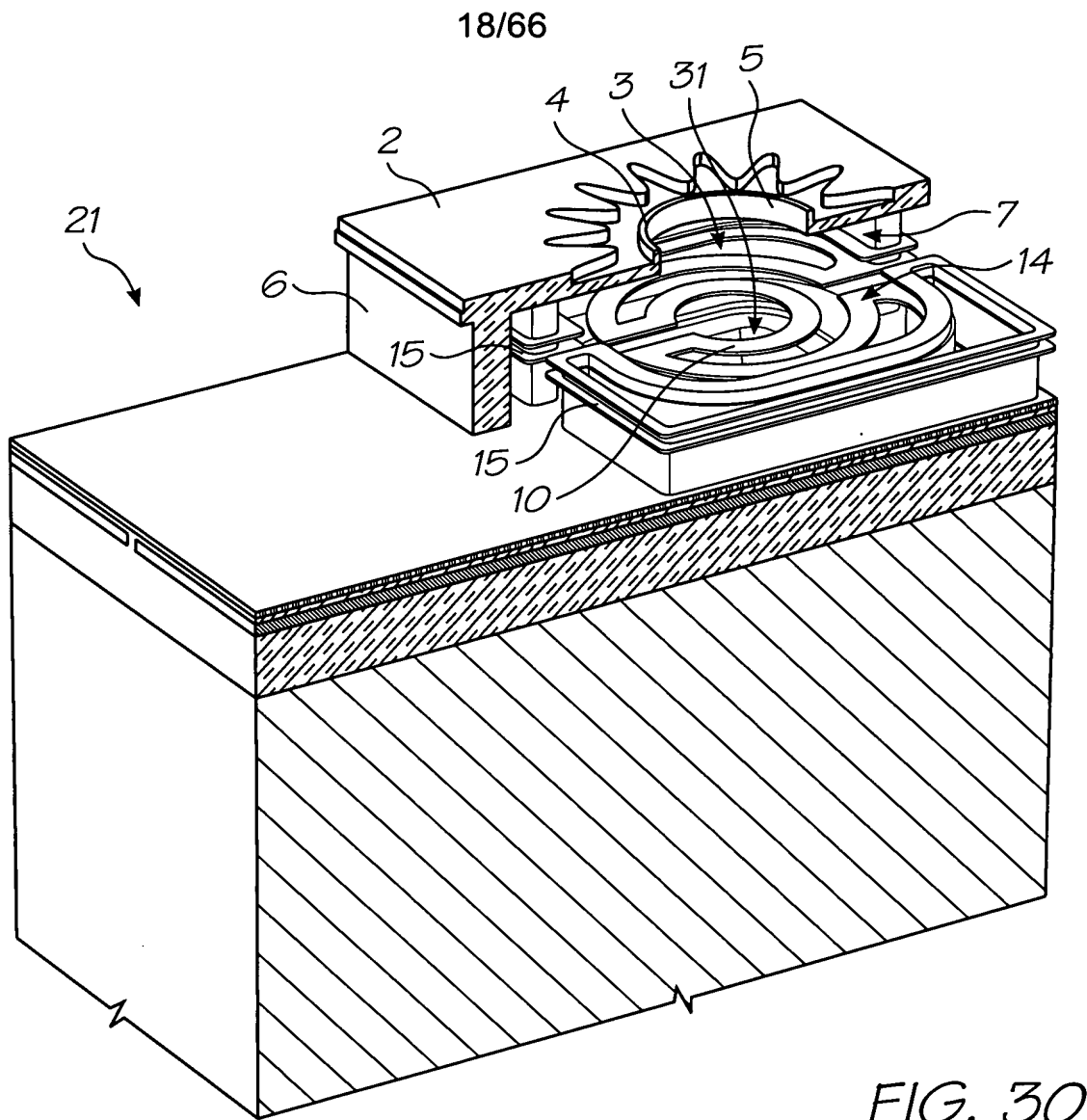


FIG. 23









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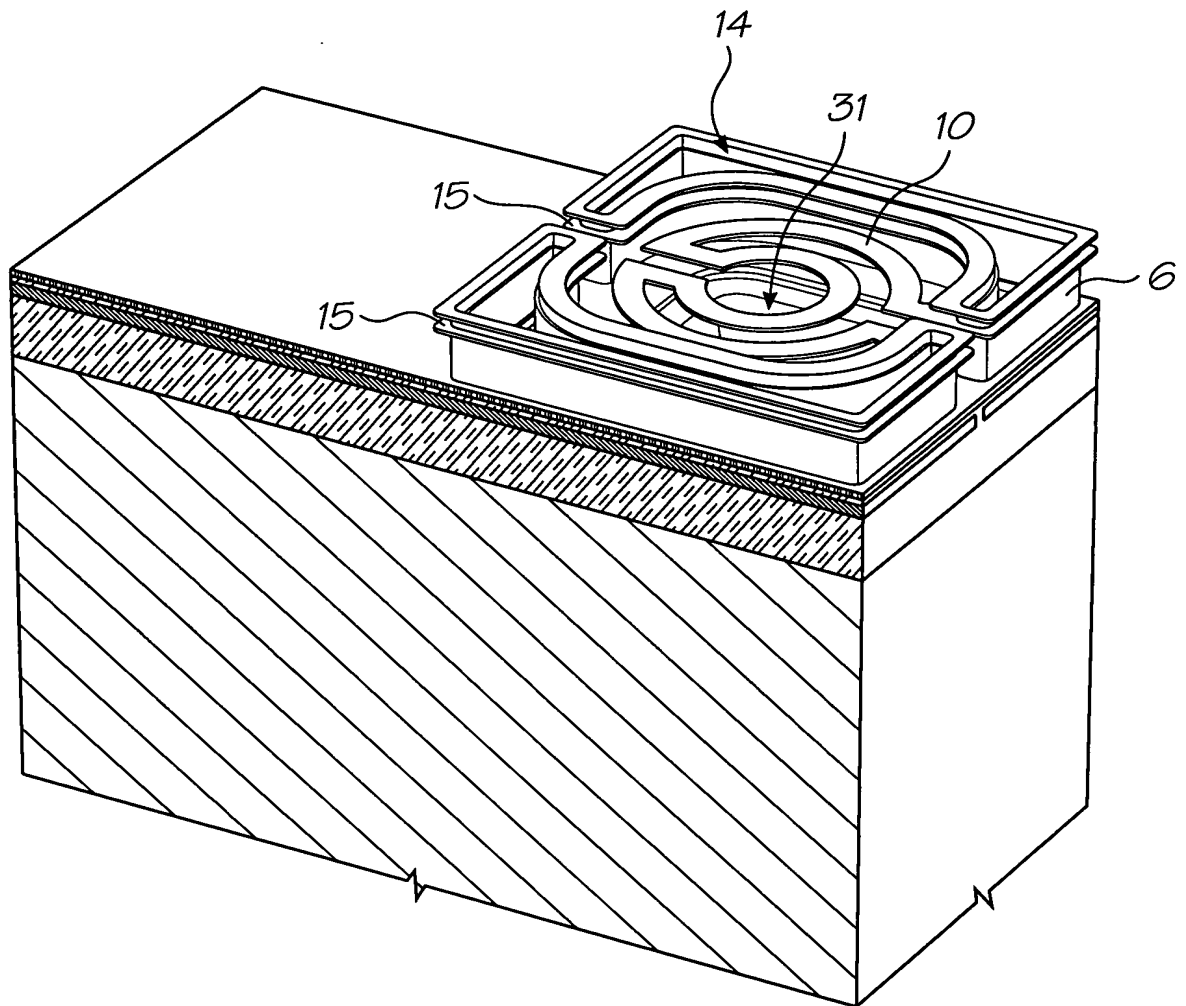


FIG. 32

This diagram shows a cross-sectional view of a turbine engine component, likely a turbine housing or a similar structure. The component has a complex, curved outer profile. A central rotor assembly is mounted within the component. The rotor assembly includes a central shaft (13) and a series of blades (10.34) arranged radially around the shaft. The blades are shown in a cross-sectional view, with their leading edges (64) and trailing edges (65) clearly defined. The blades are mounted on a central hub (63) and are secured by a series of bolts or fasteners (15.34). The entire assembly is housed within a component that has a thick, curved wall (49). A dashed line indicates a cross-section through the component.

FIG. 34

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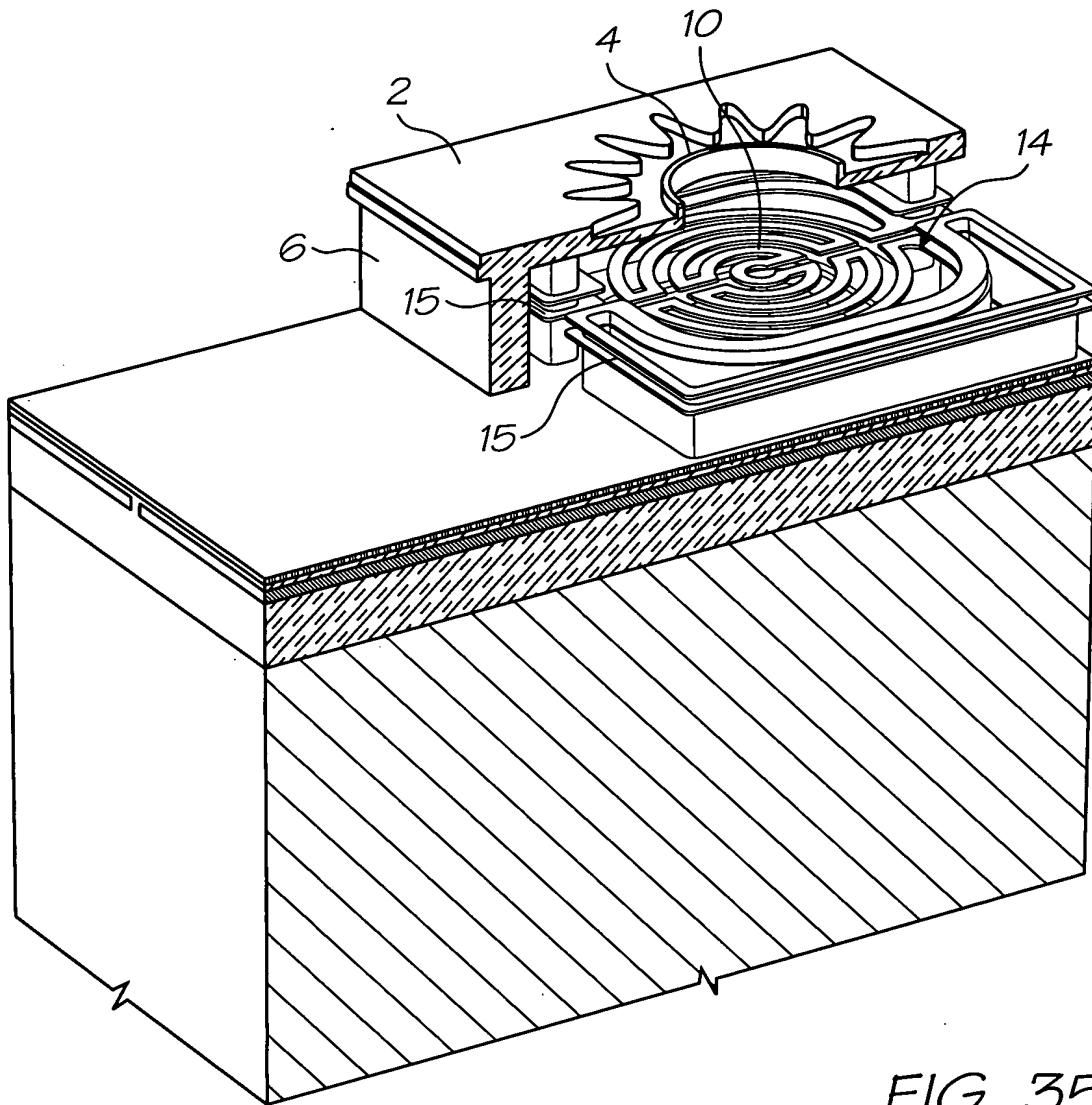


FIG. 35

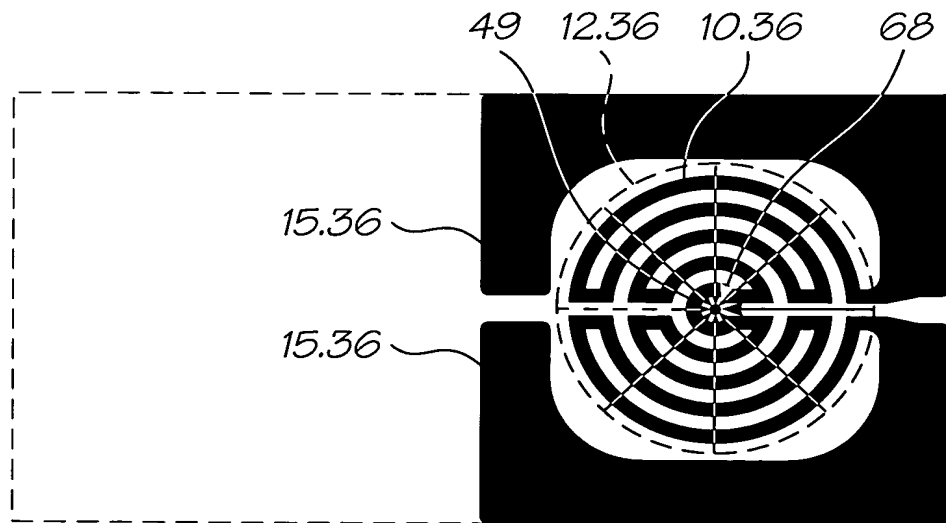


FIG. 36

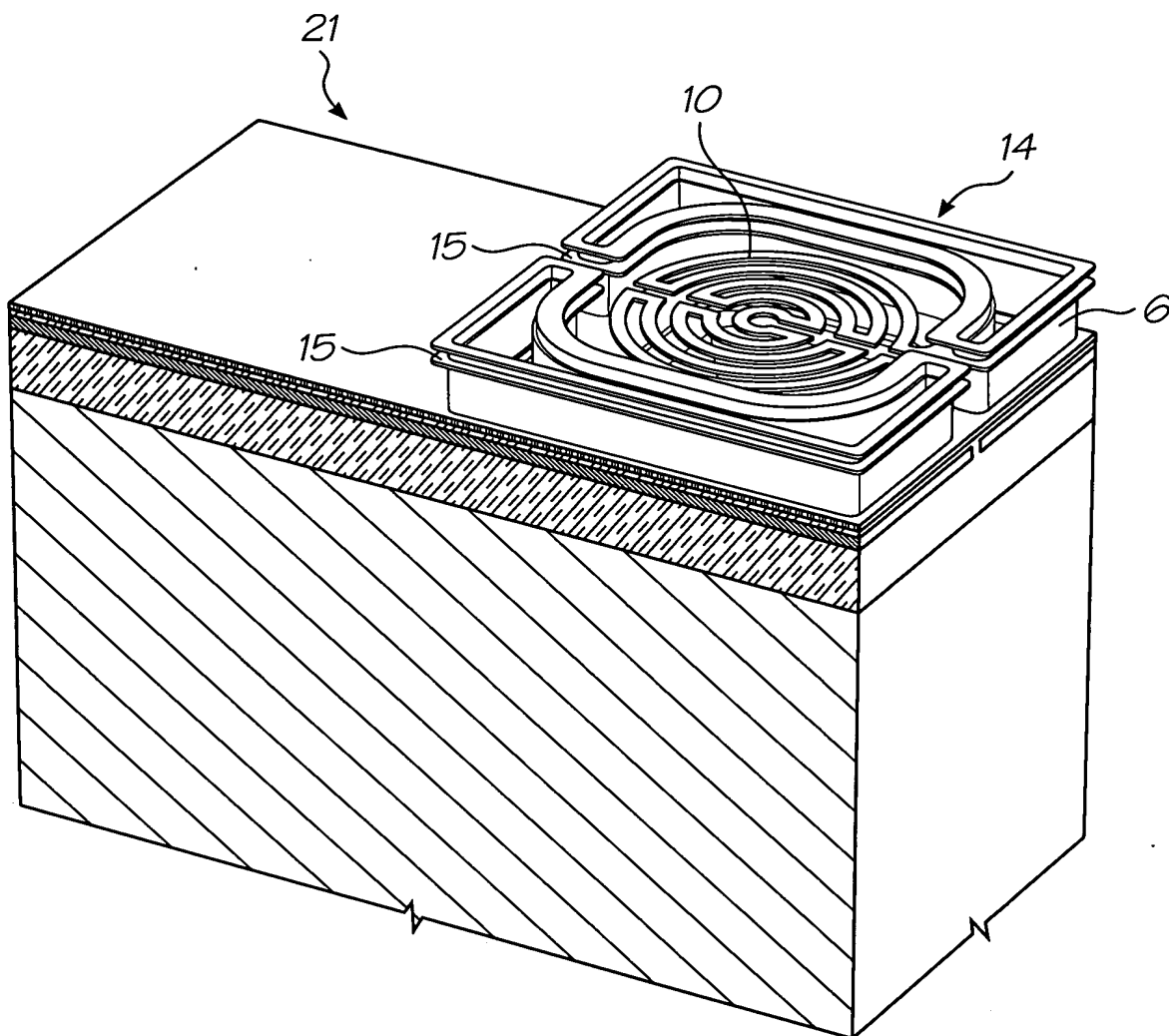


FIG. 37

FIG. 39

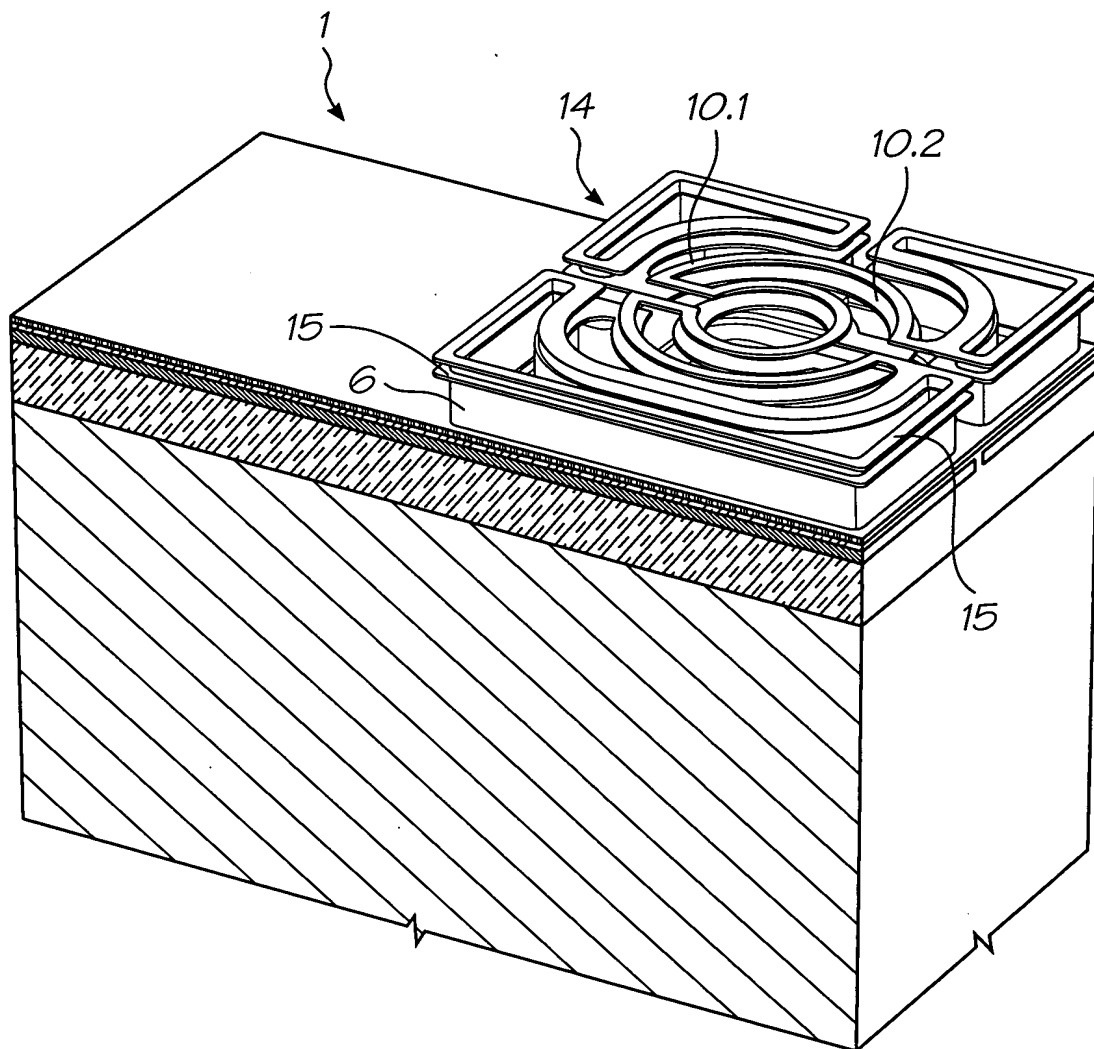


FIG. 40

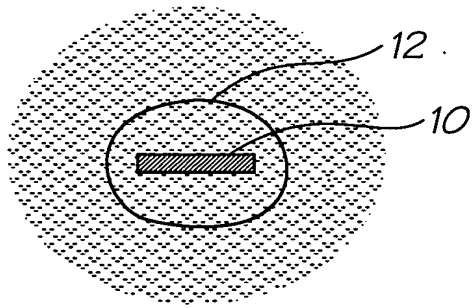


FIG. 41

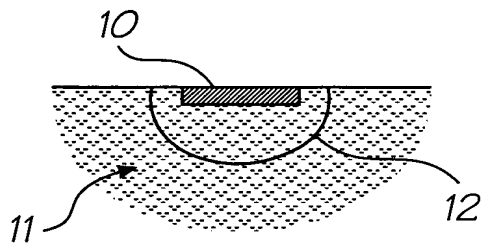


FIG. 42

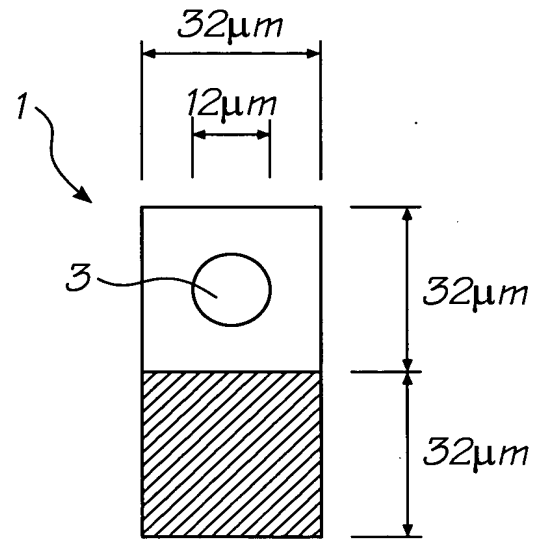


FIG. 43

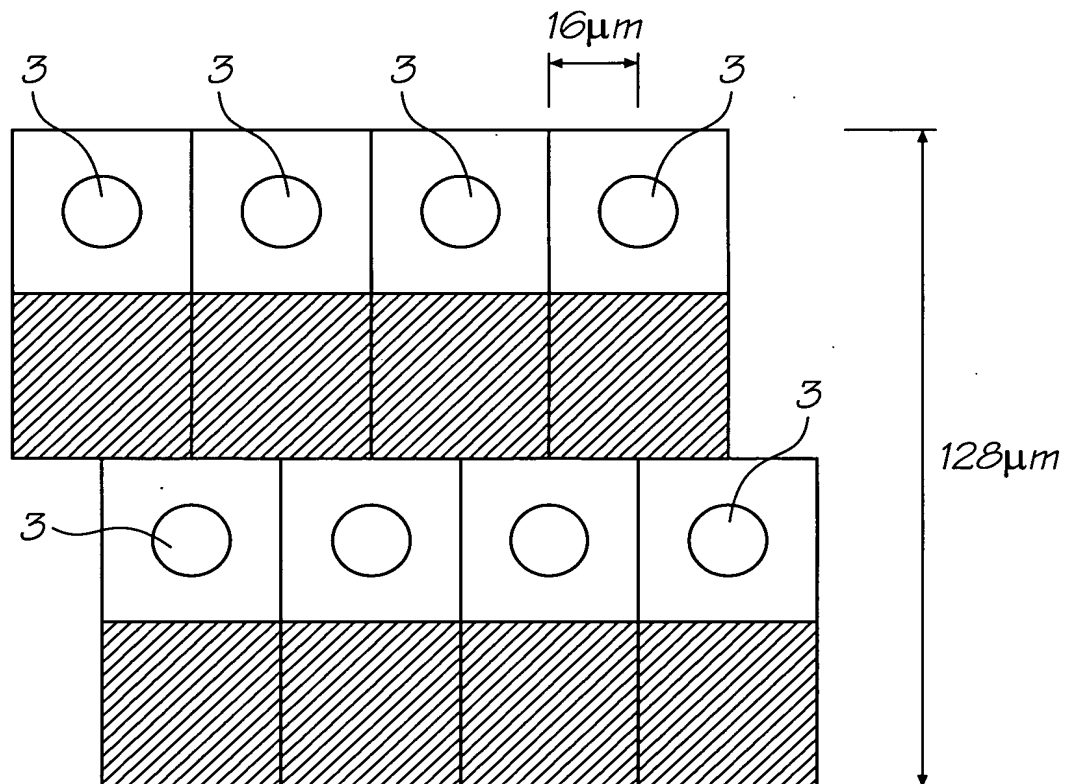


FIG. 44

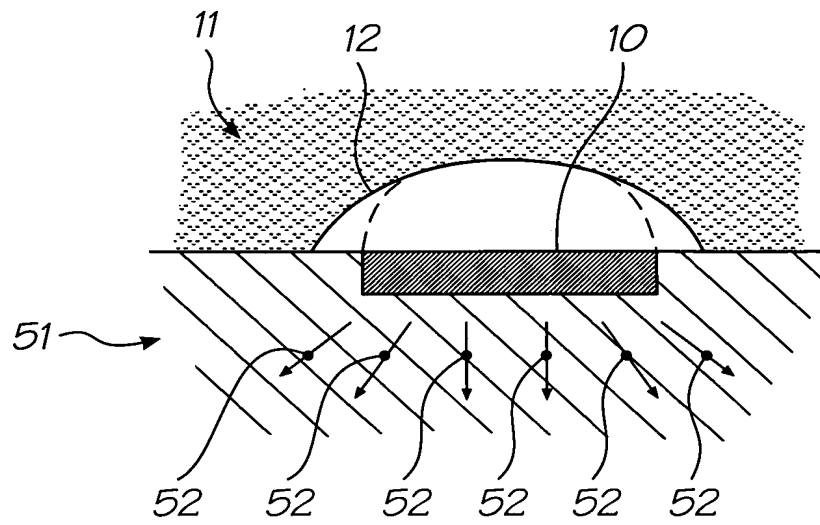


FIG. 45

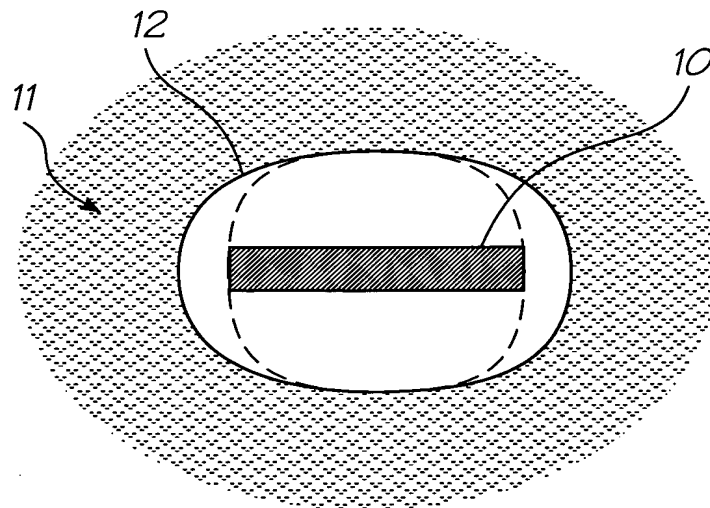


FIG. 46

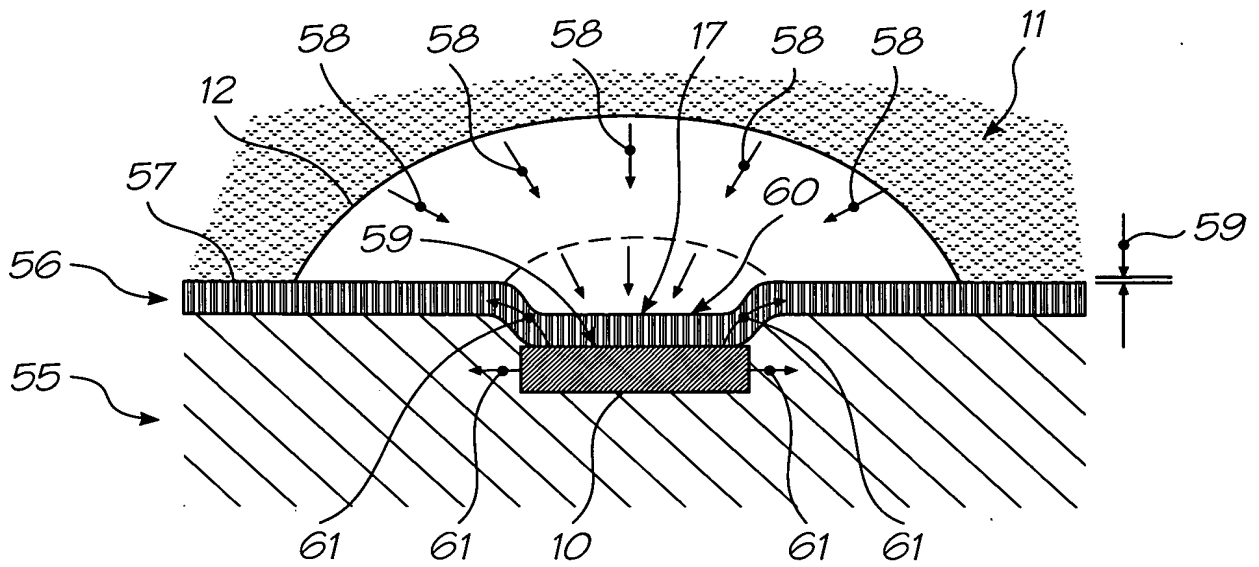


FIG. 47
(PRIOR ART)

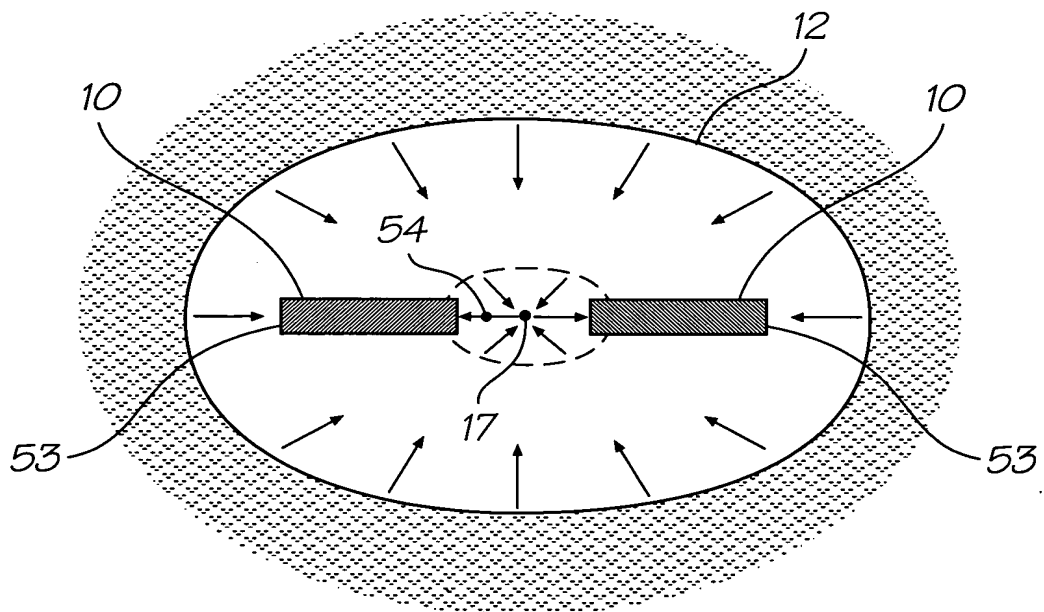


FIG. 48

FIG. 49

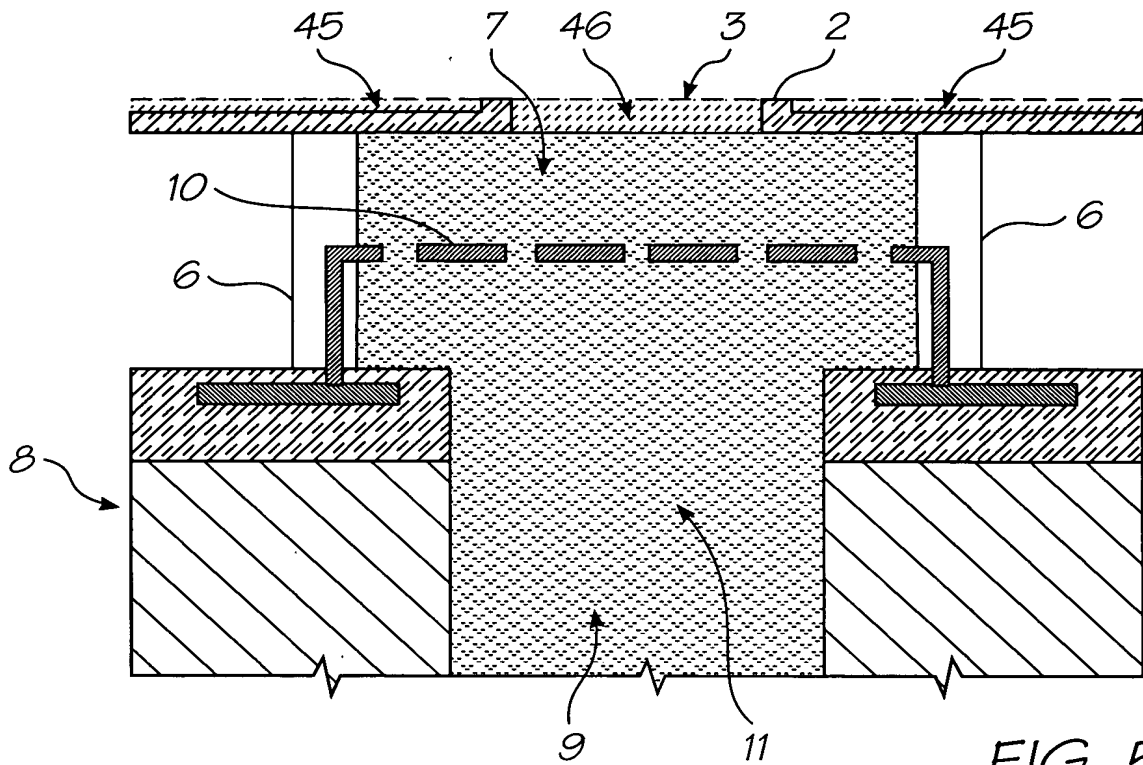


FIG. 50

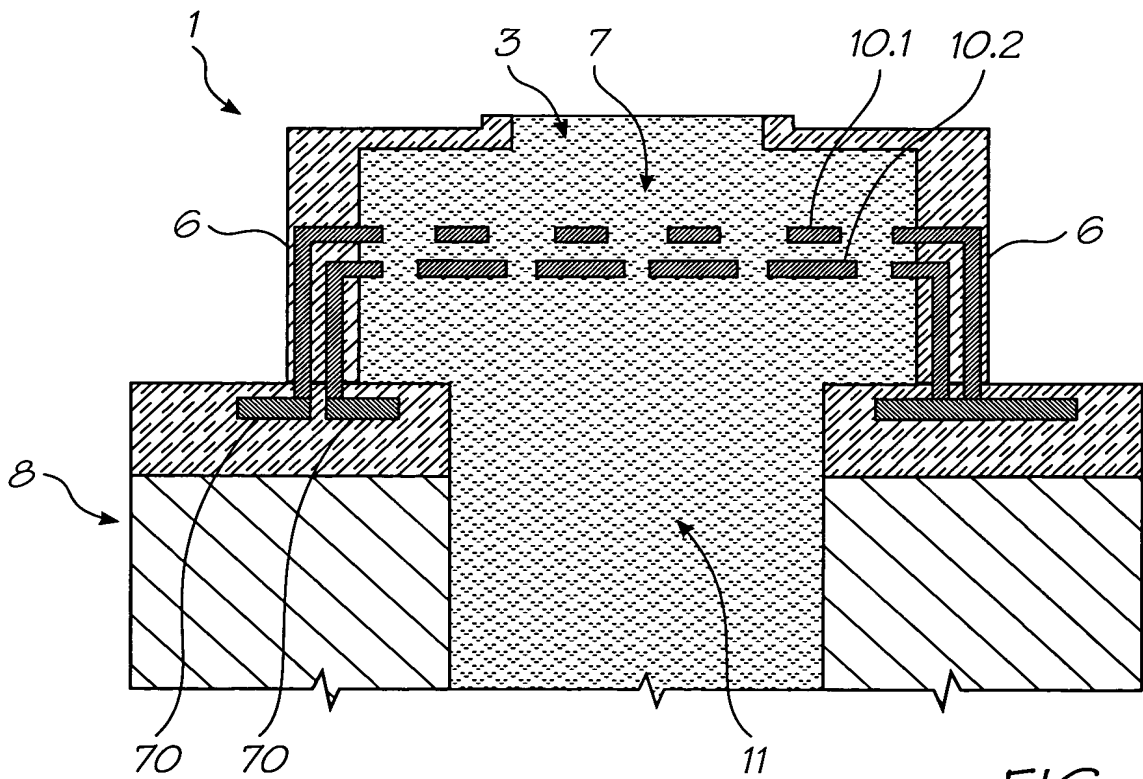


FIG. 51

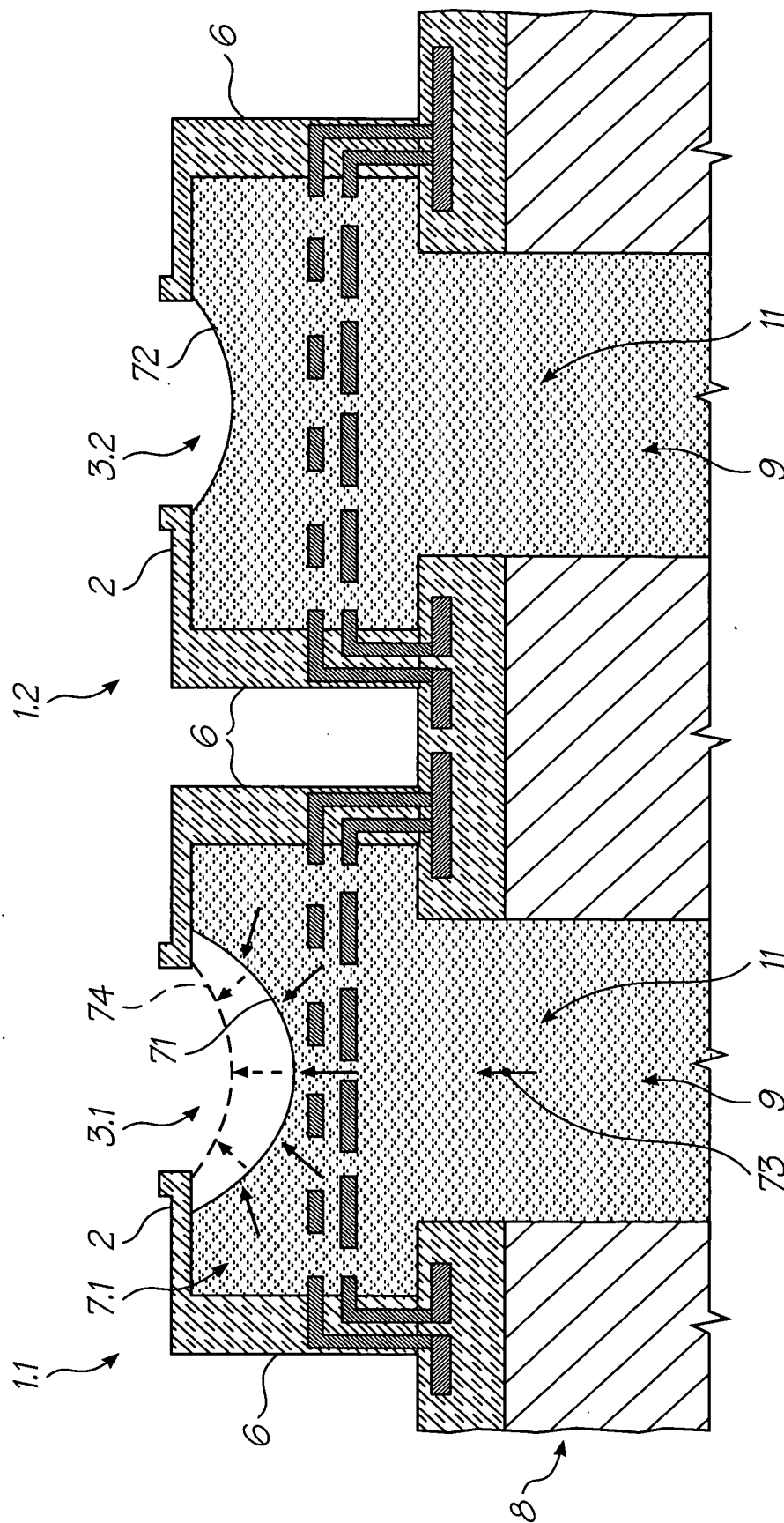


FIG. 53

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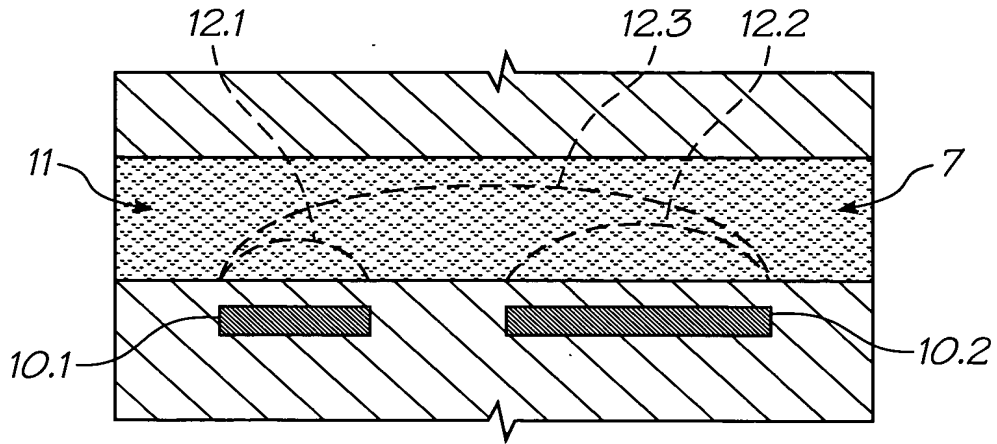


FIG. 52
(PRIOR ART)

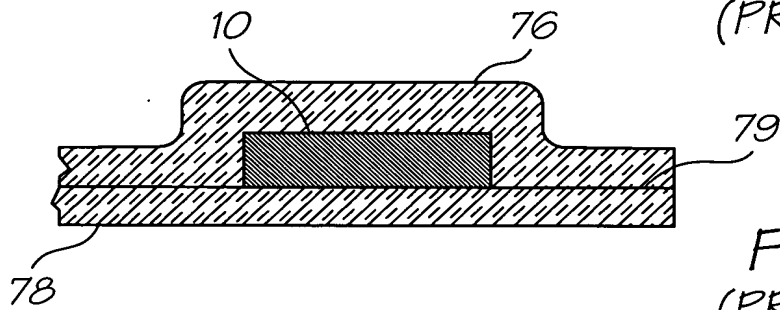


FIG. 54
(PRIOR ART)

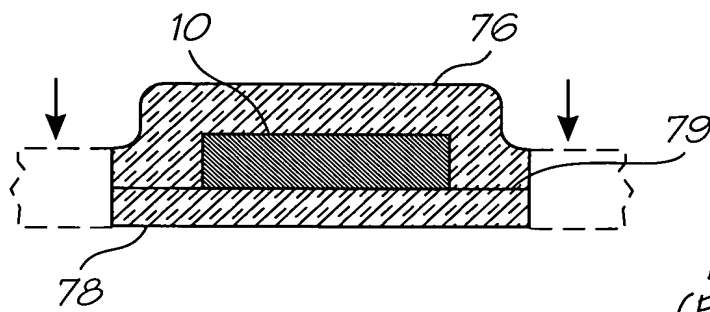


FIG. 55
(PRIOR ART)

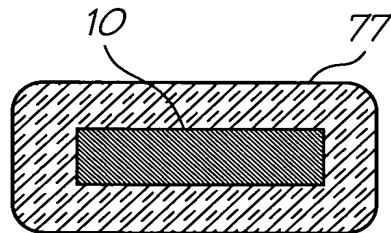


FIG. 56

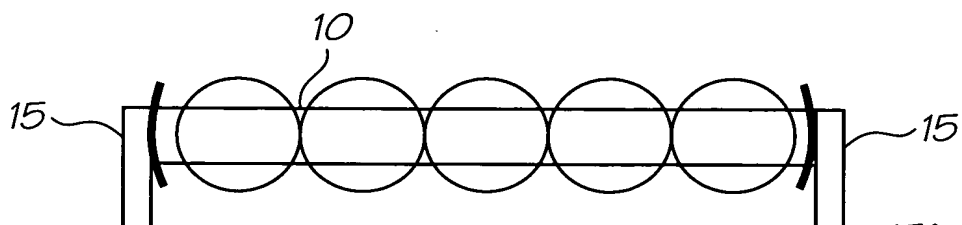


FIG. 57

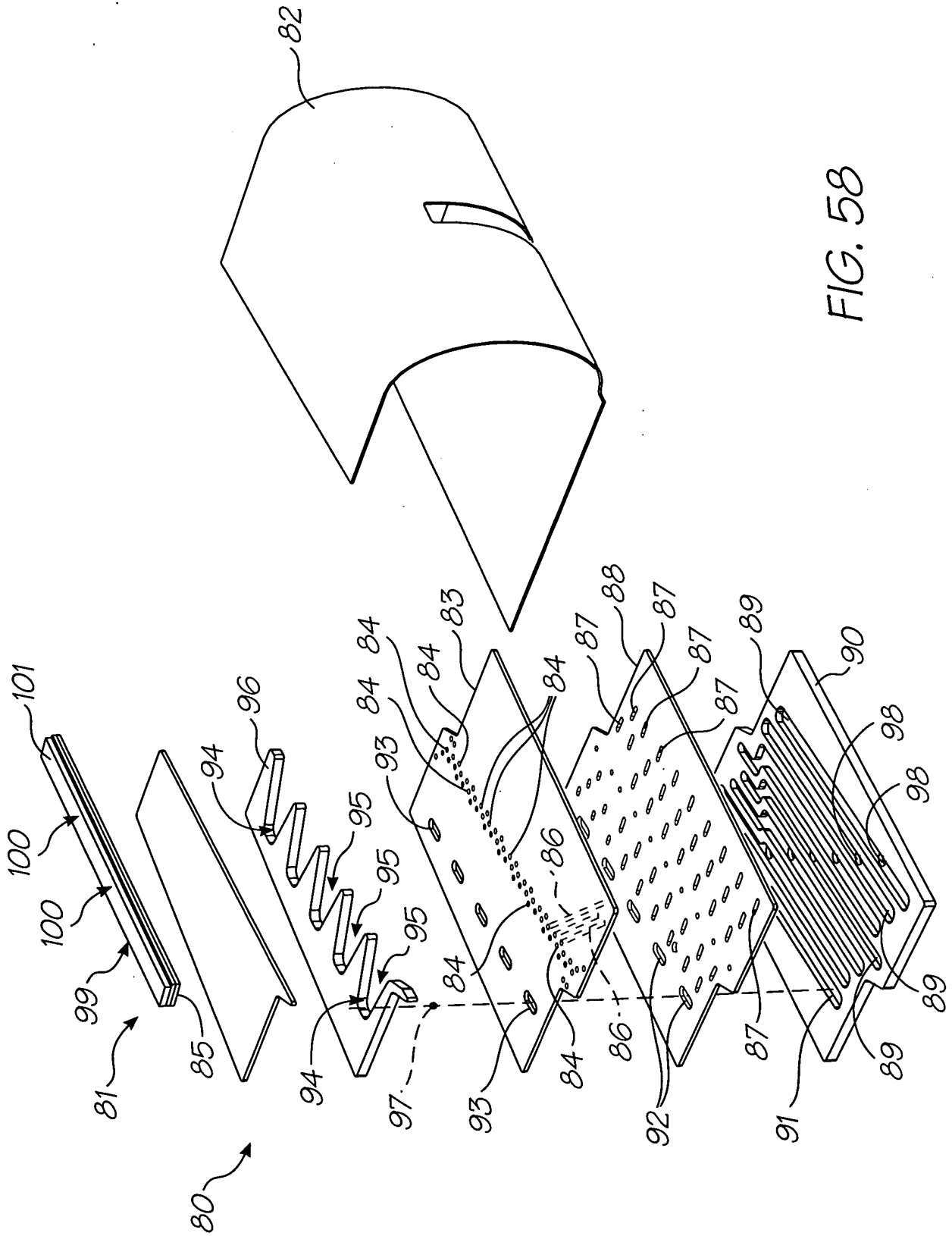


FIG. 58

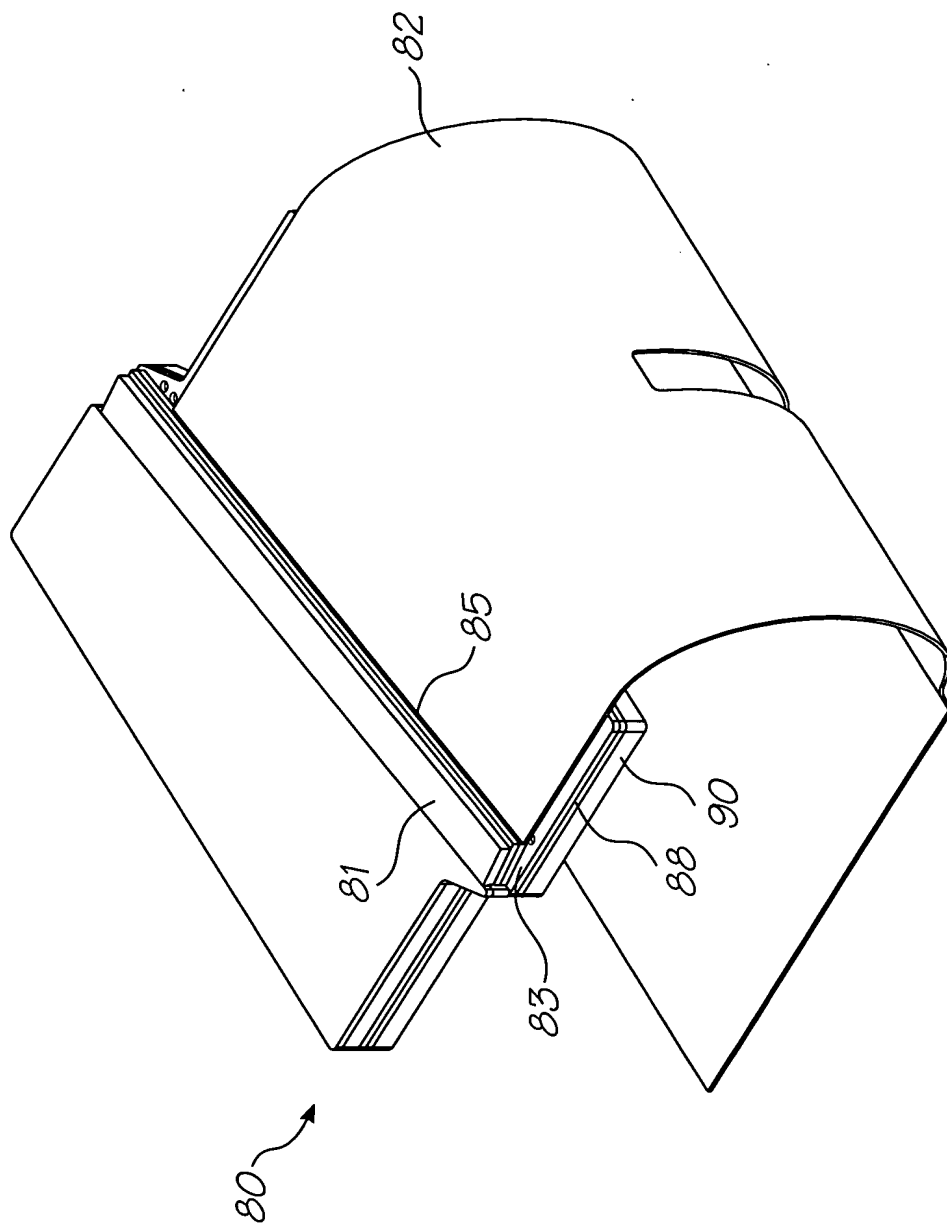


FIG. 59

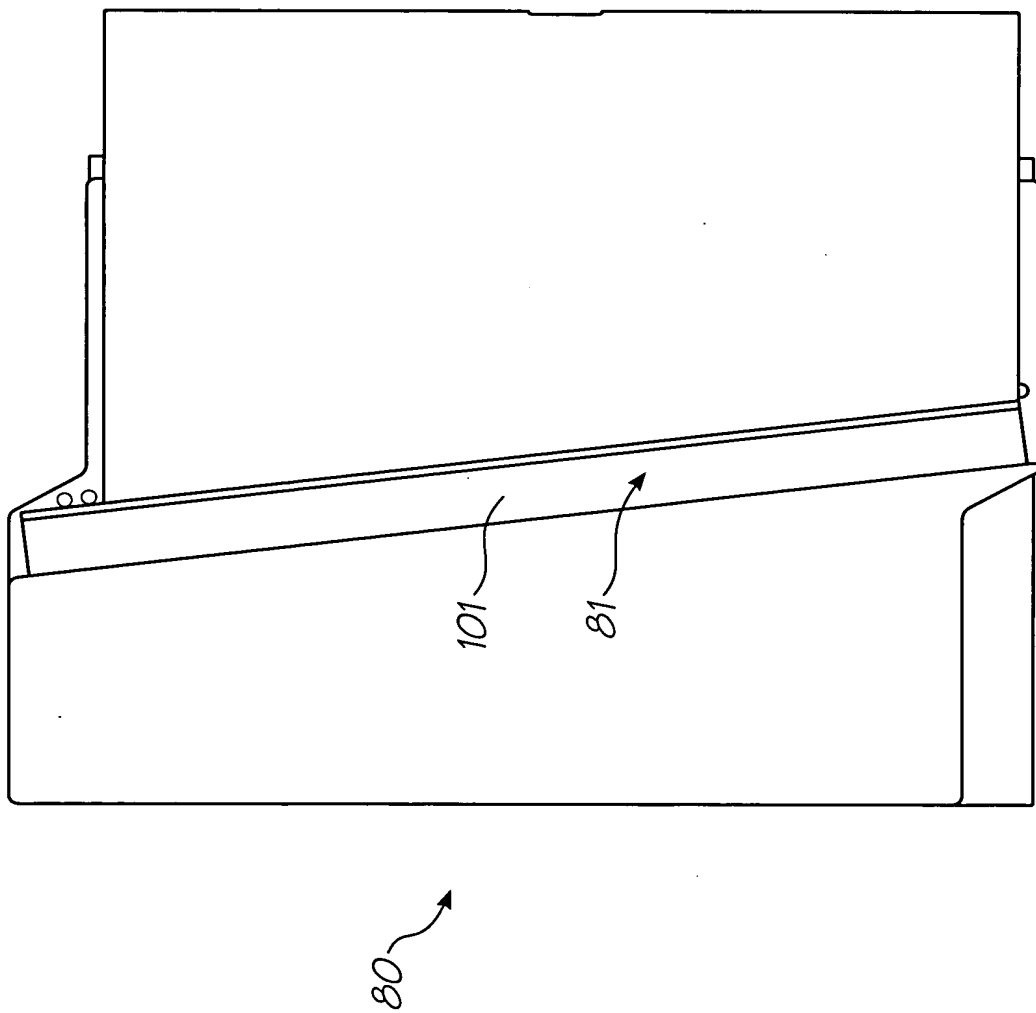


FIG. 61

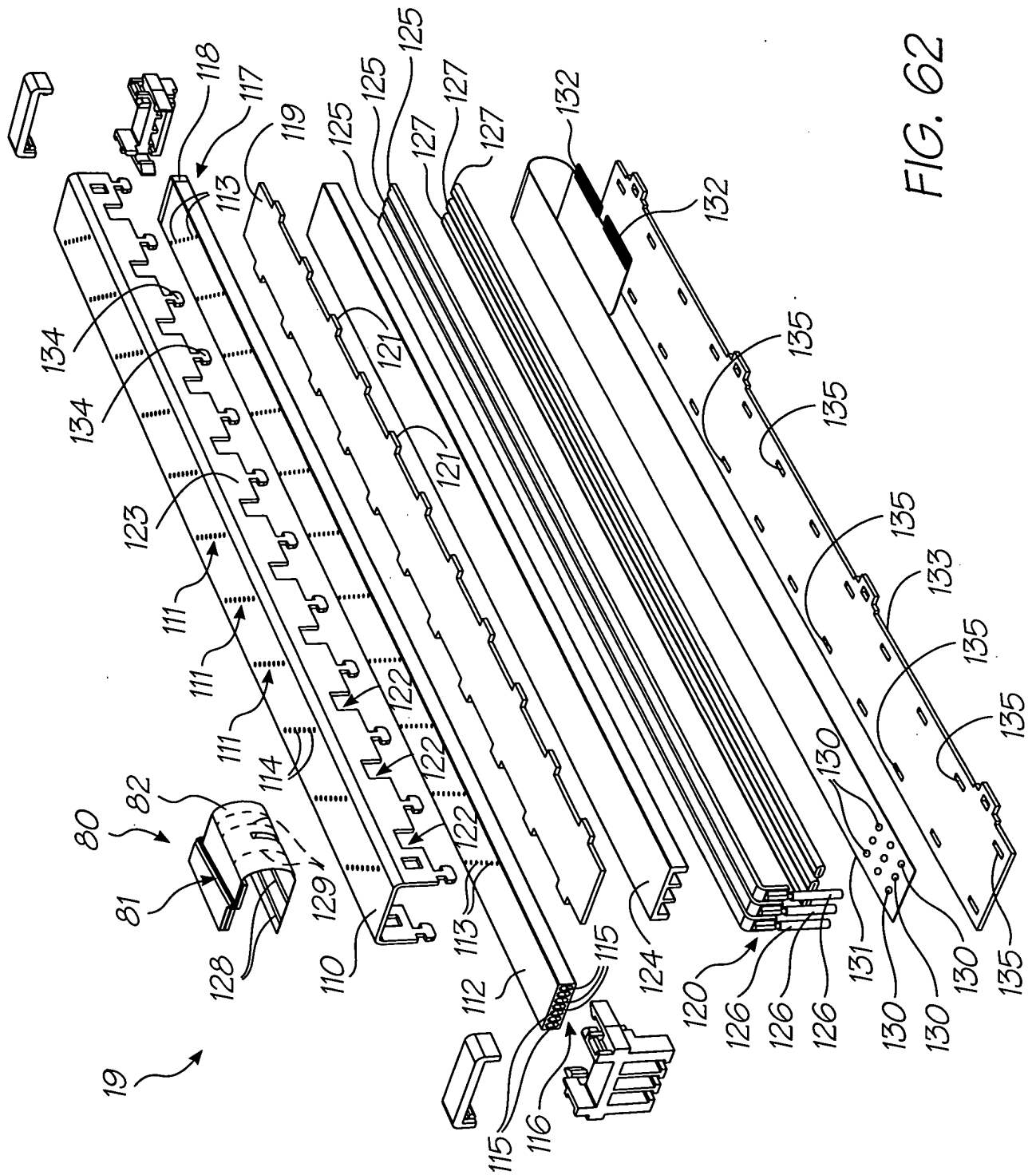


FIG. 62

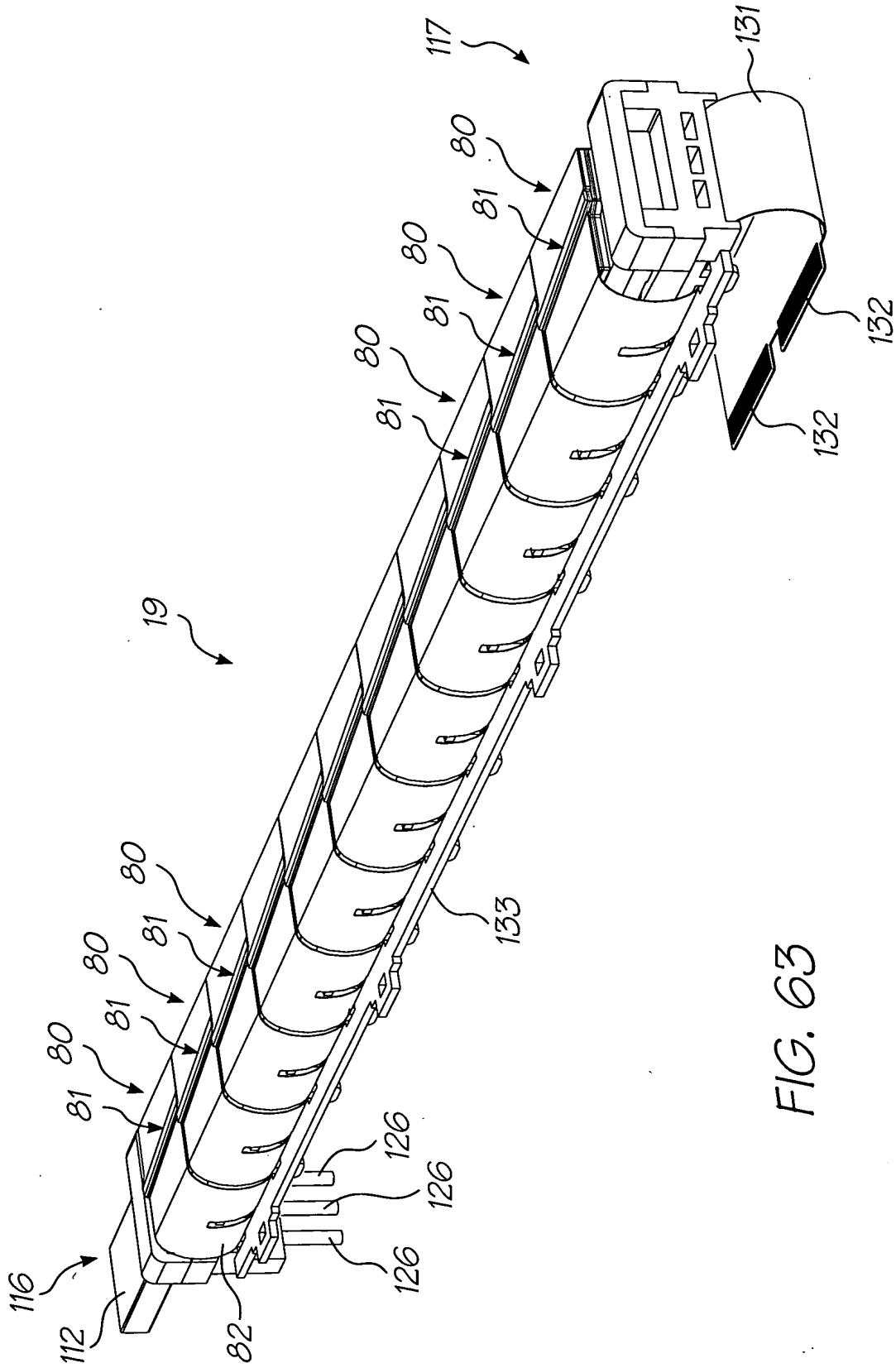


FIG. 63

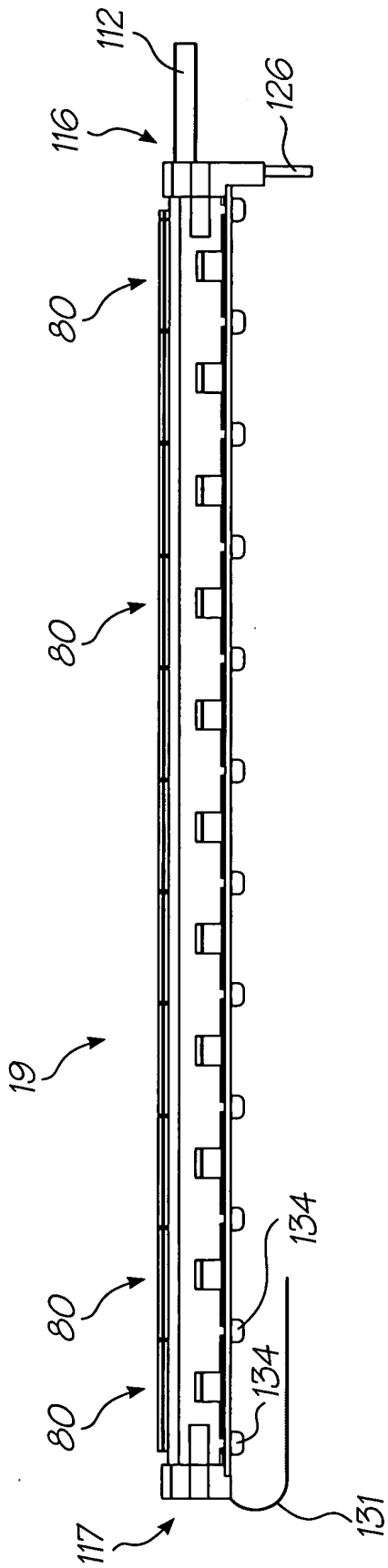


FIG. 64

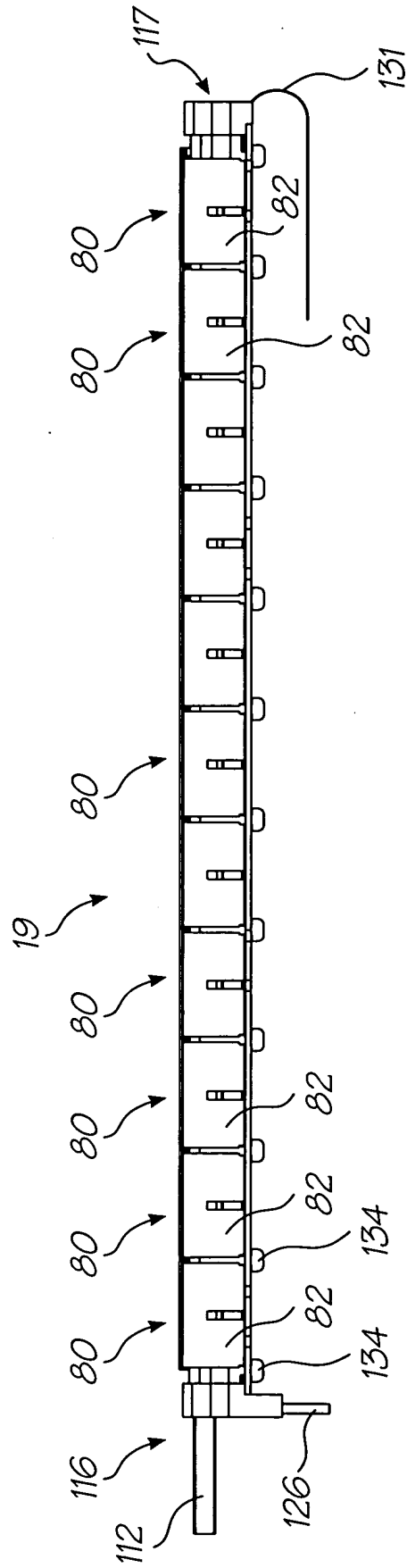
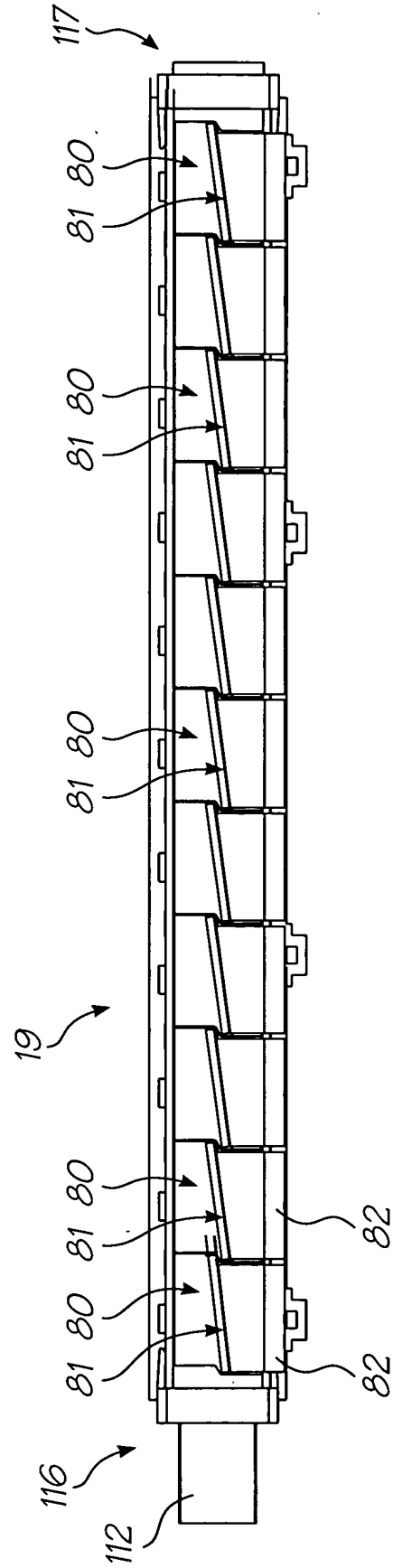
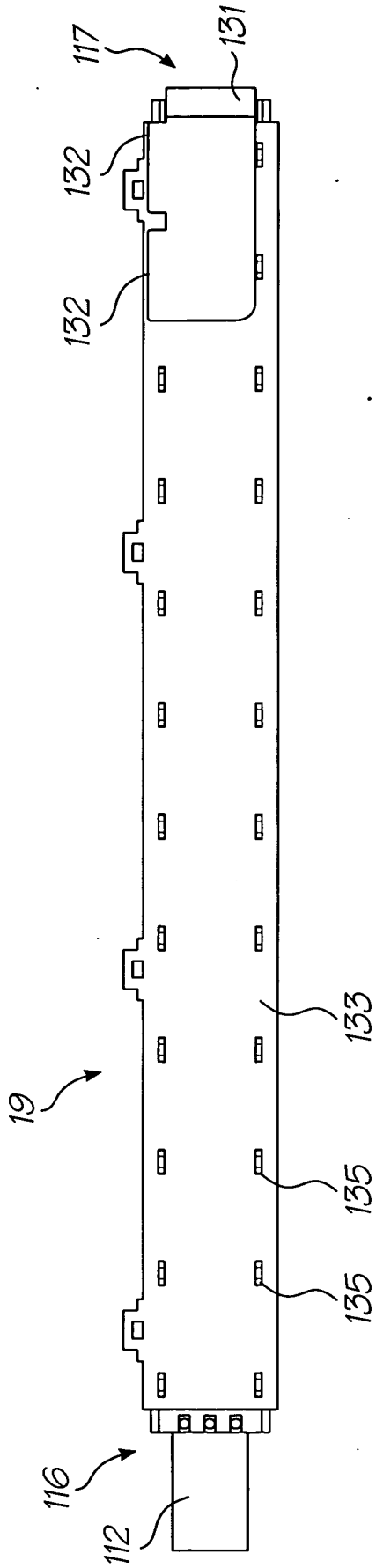
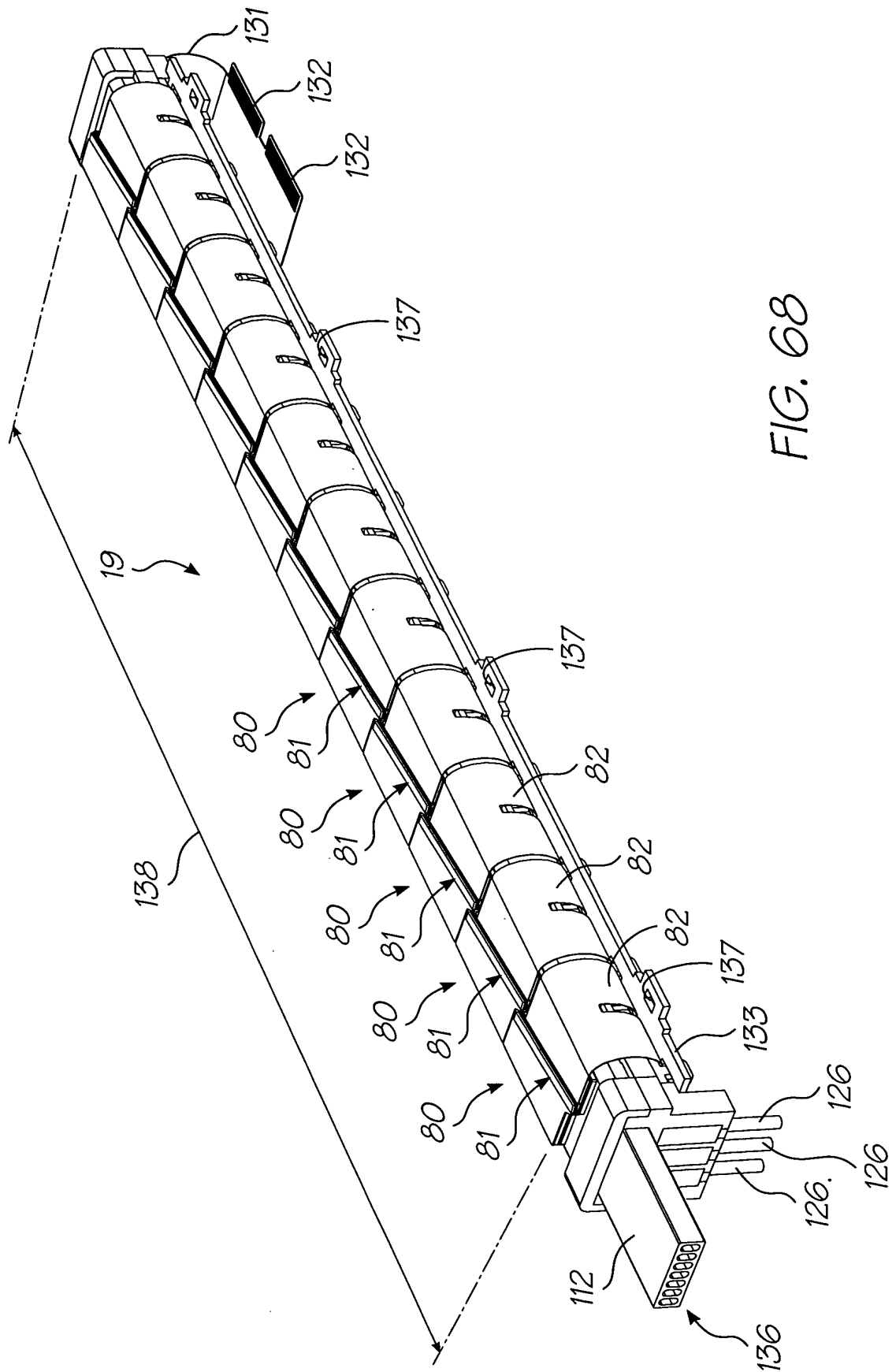


FIG. 65





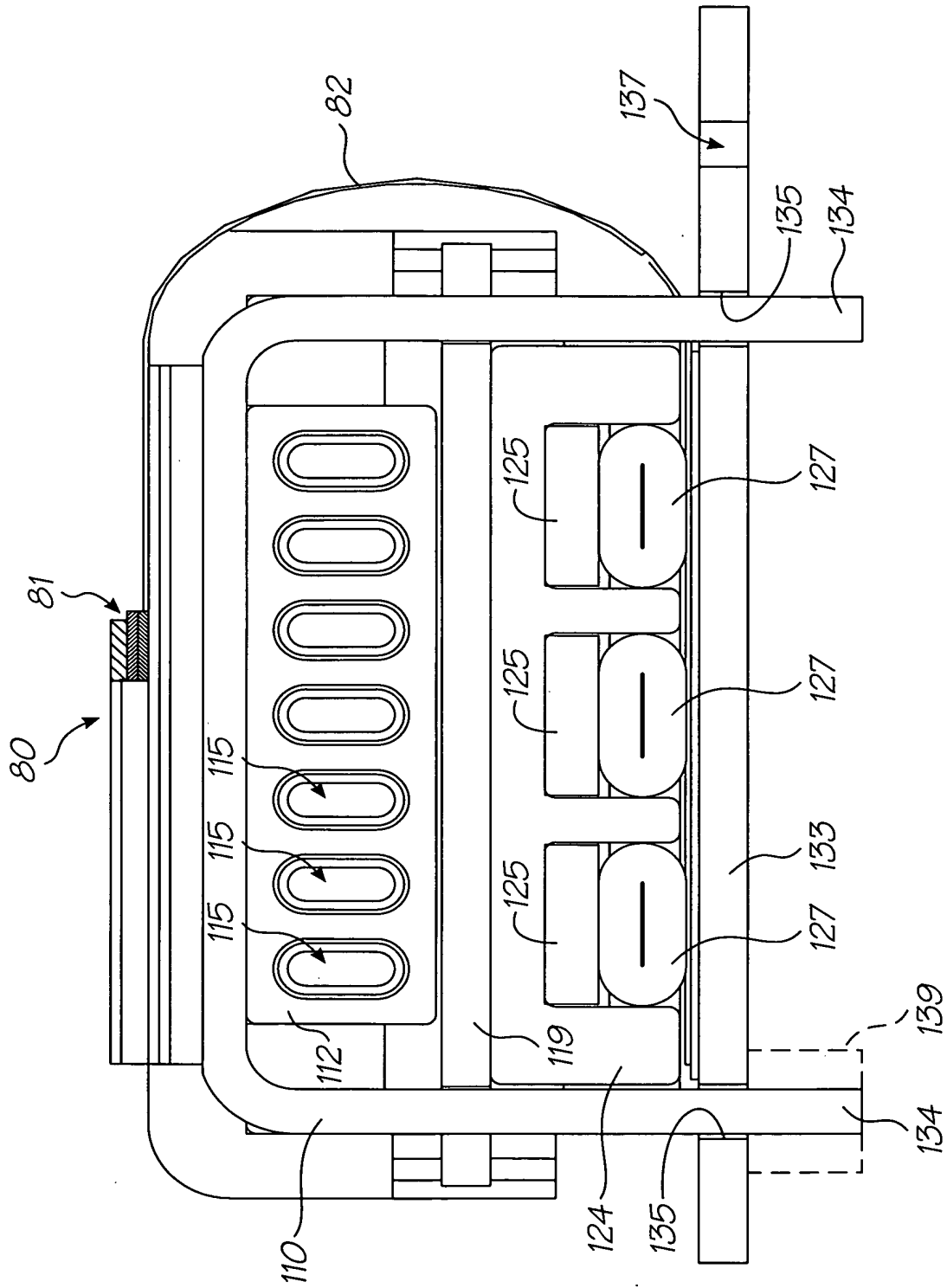


FIG. 69

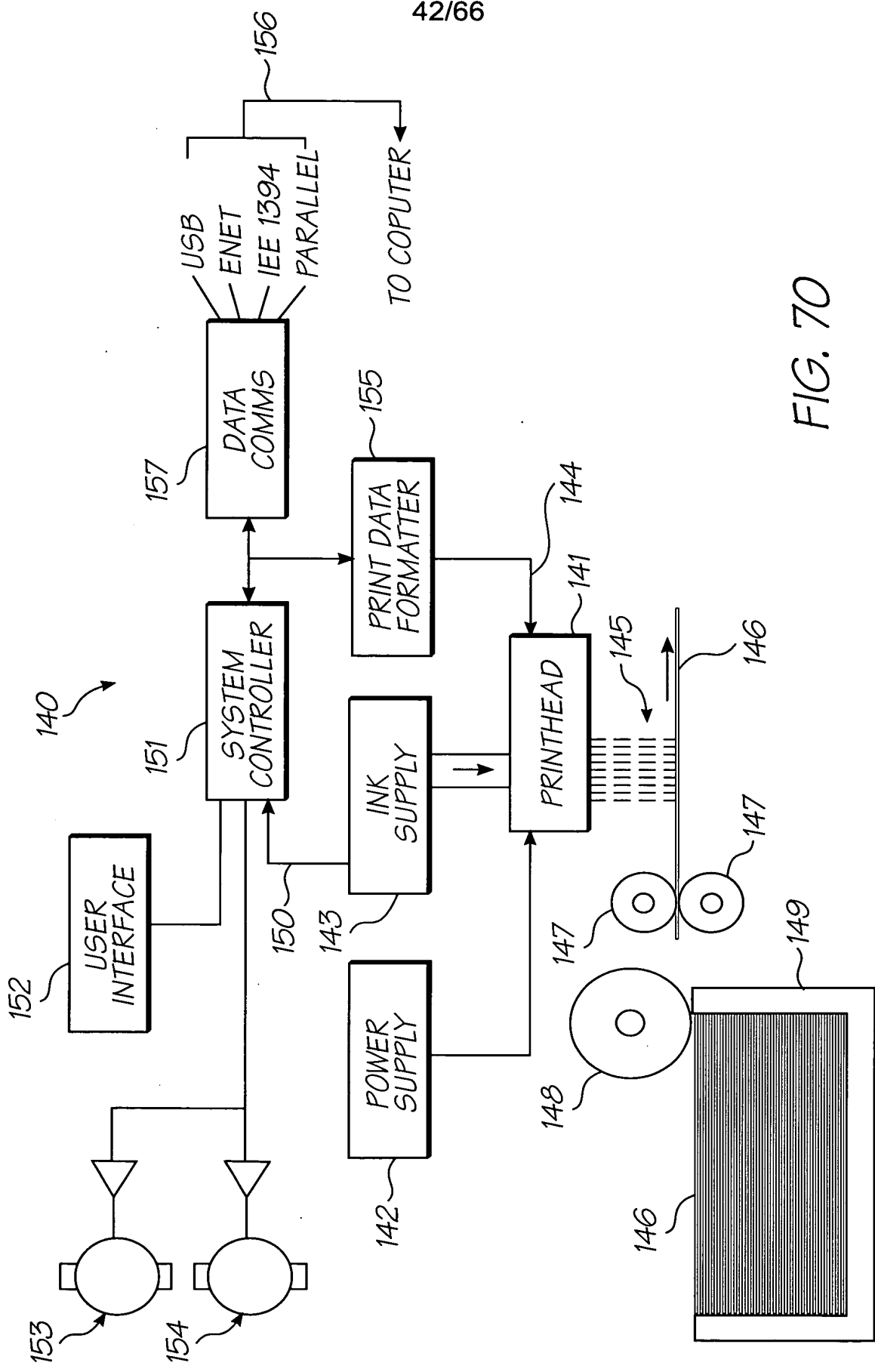
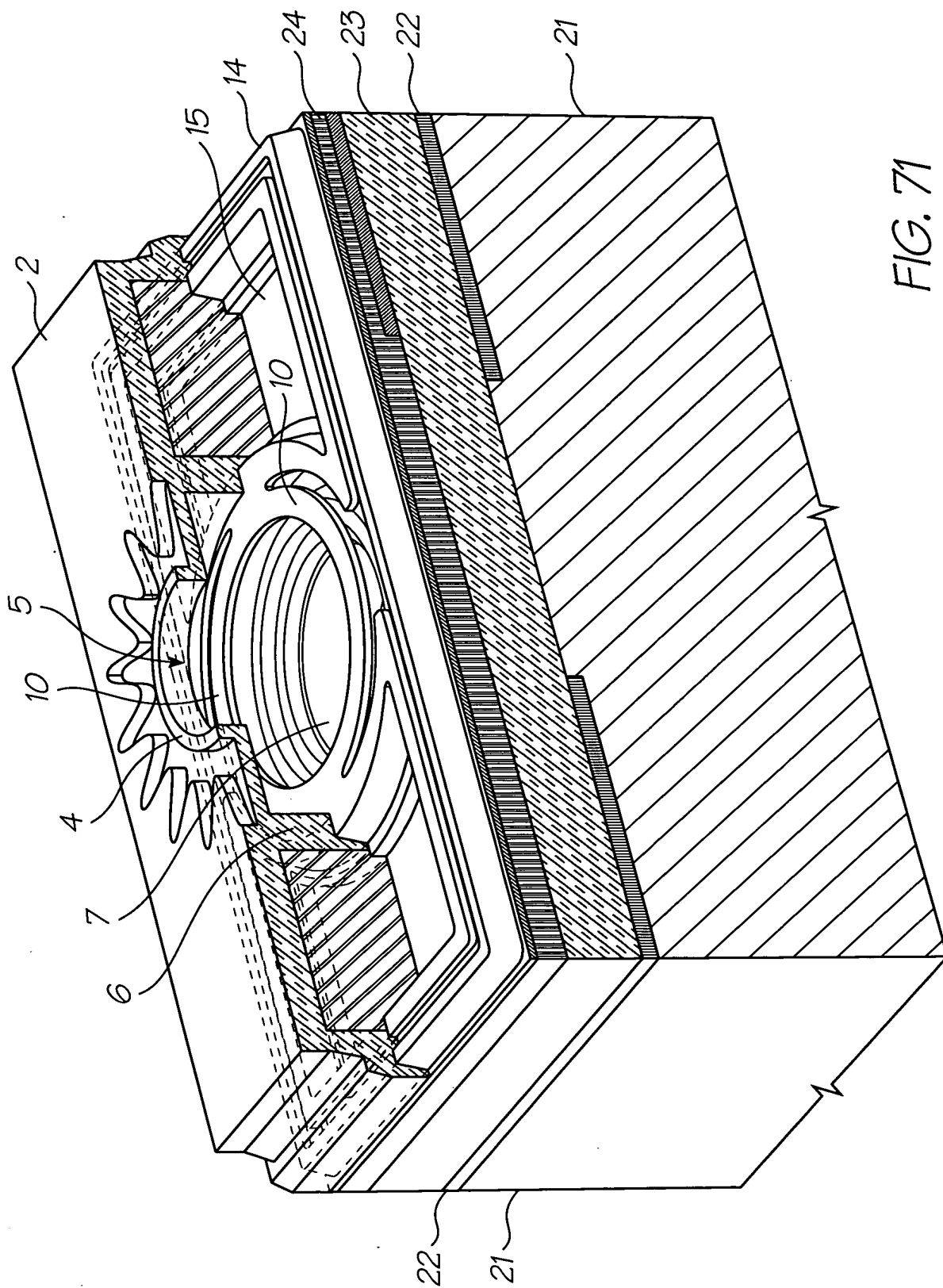


FIG. 70



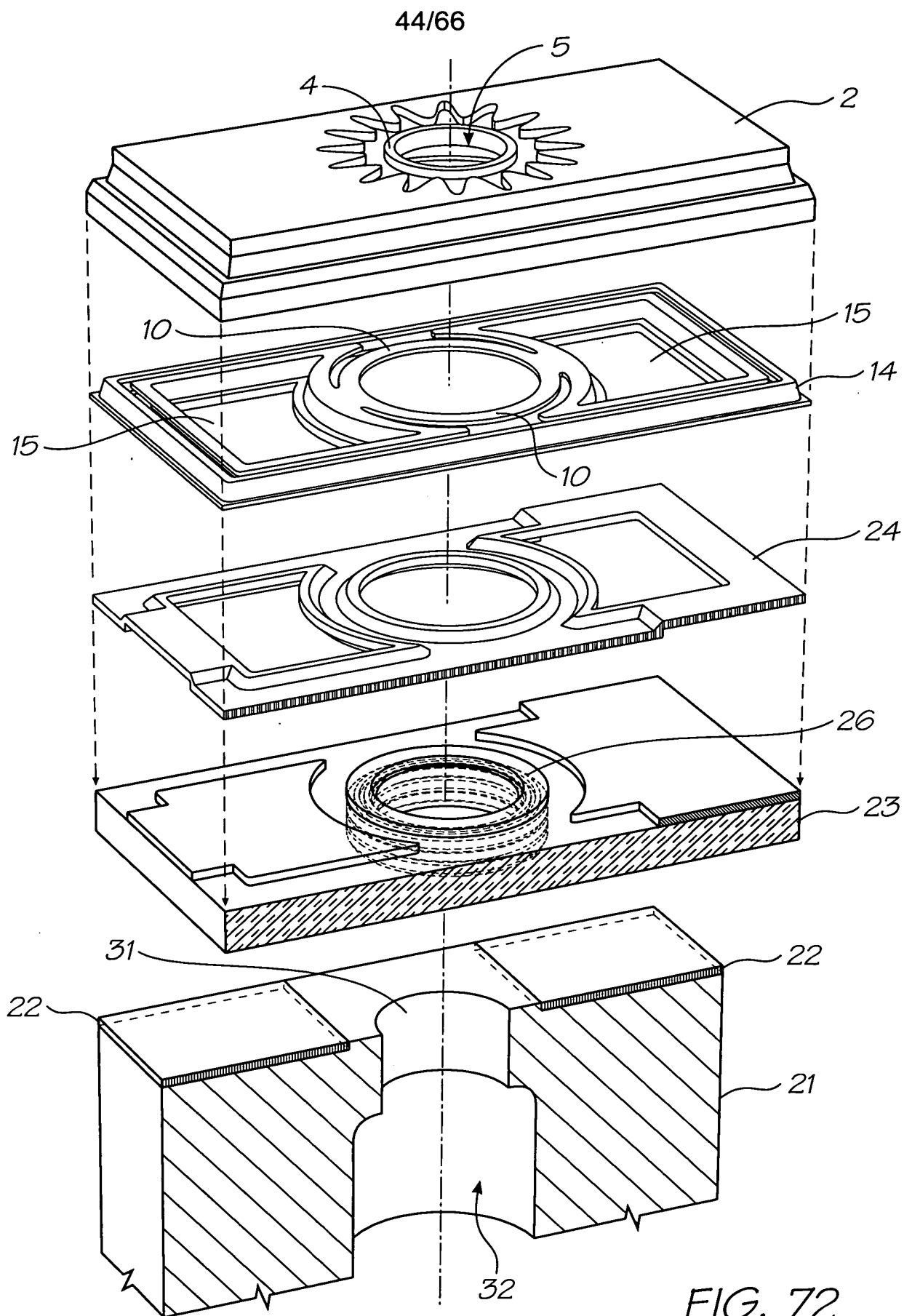


FIG. 72

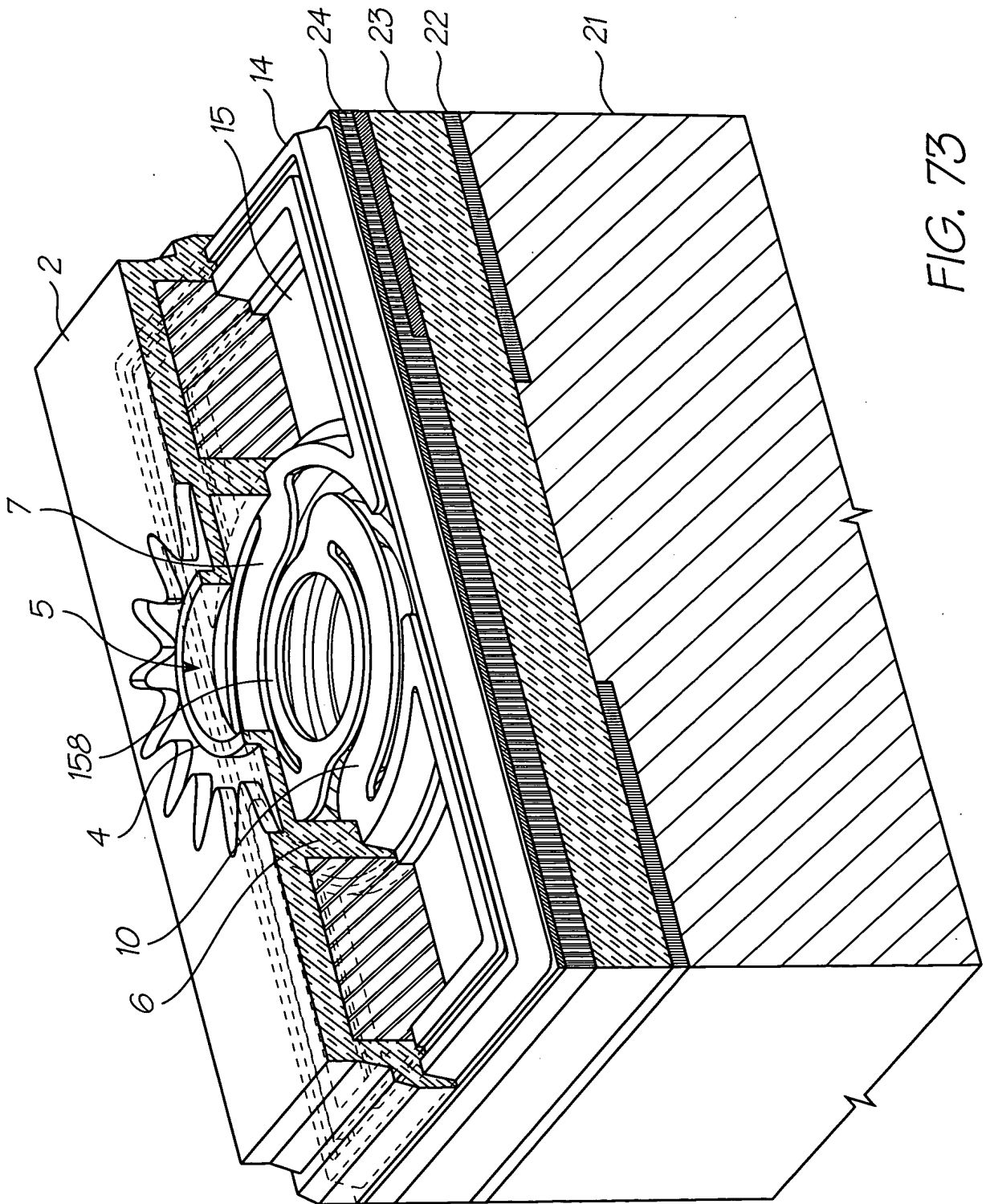


FIG. 73

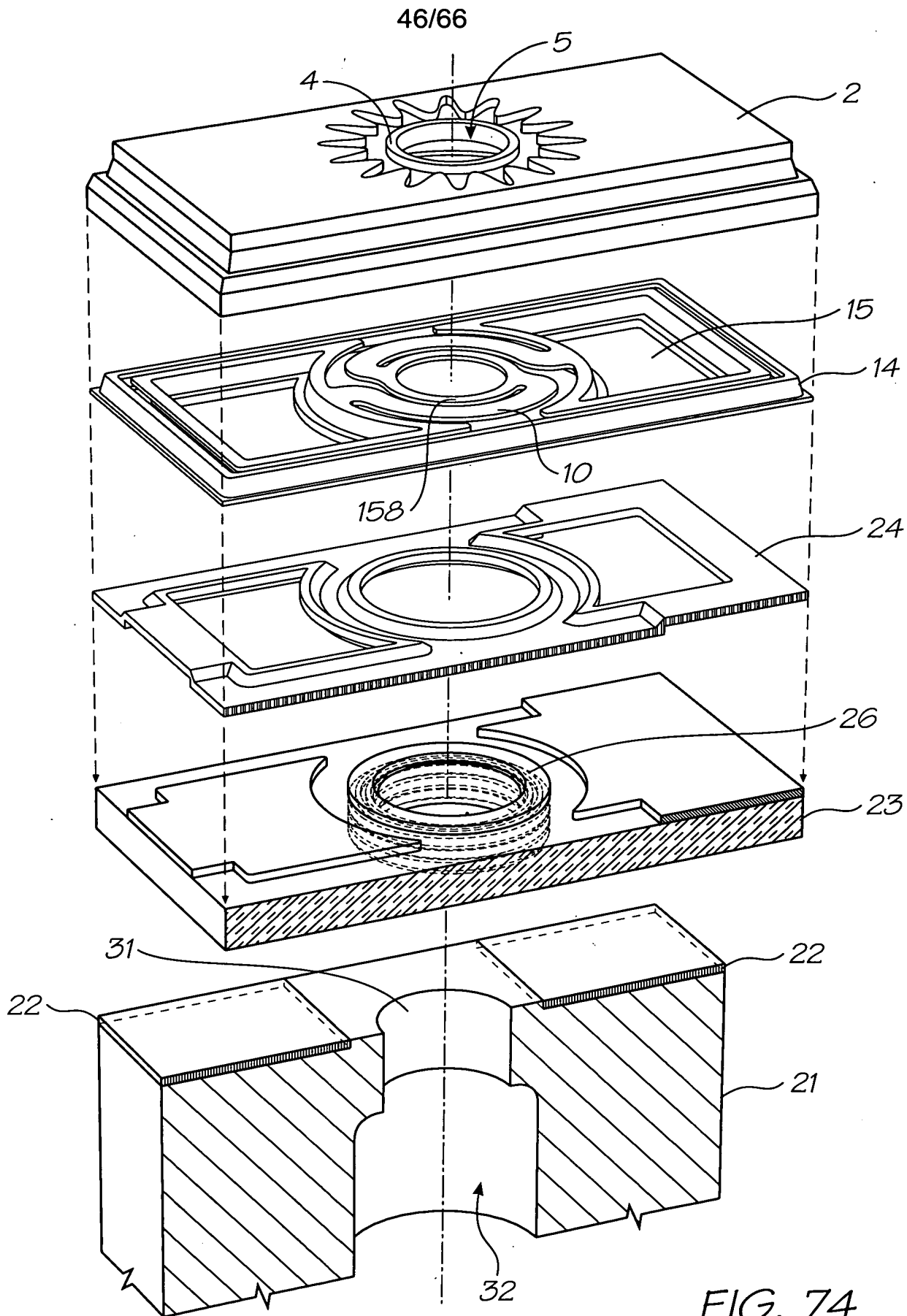


FIG. 74

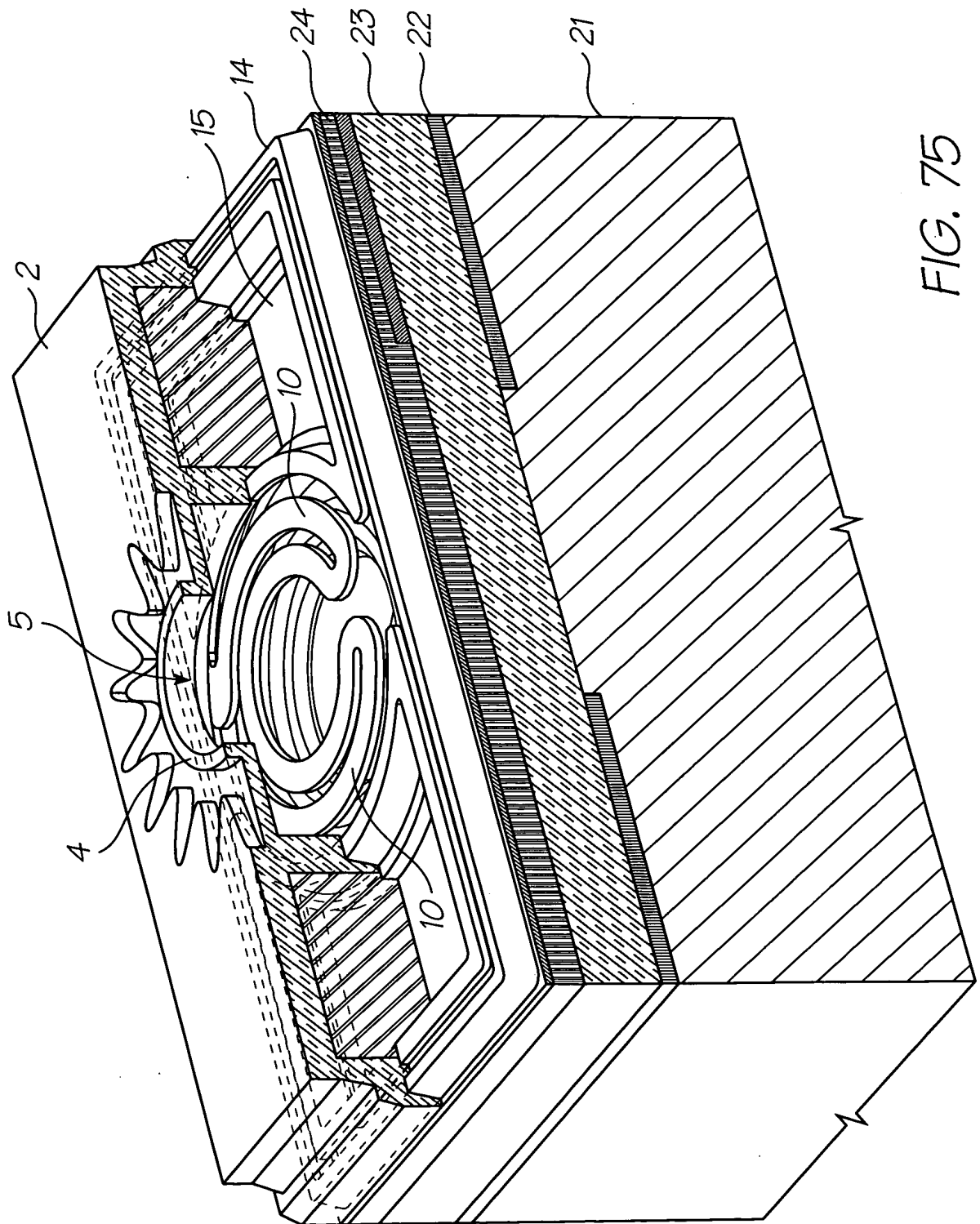


FIG. 75

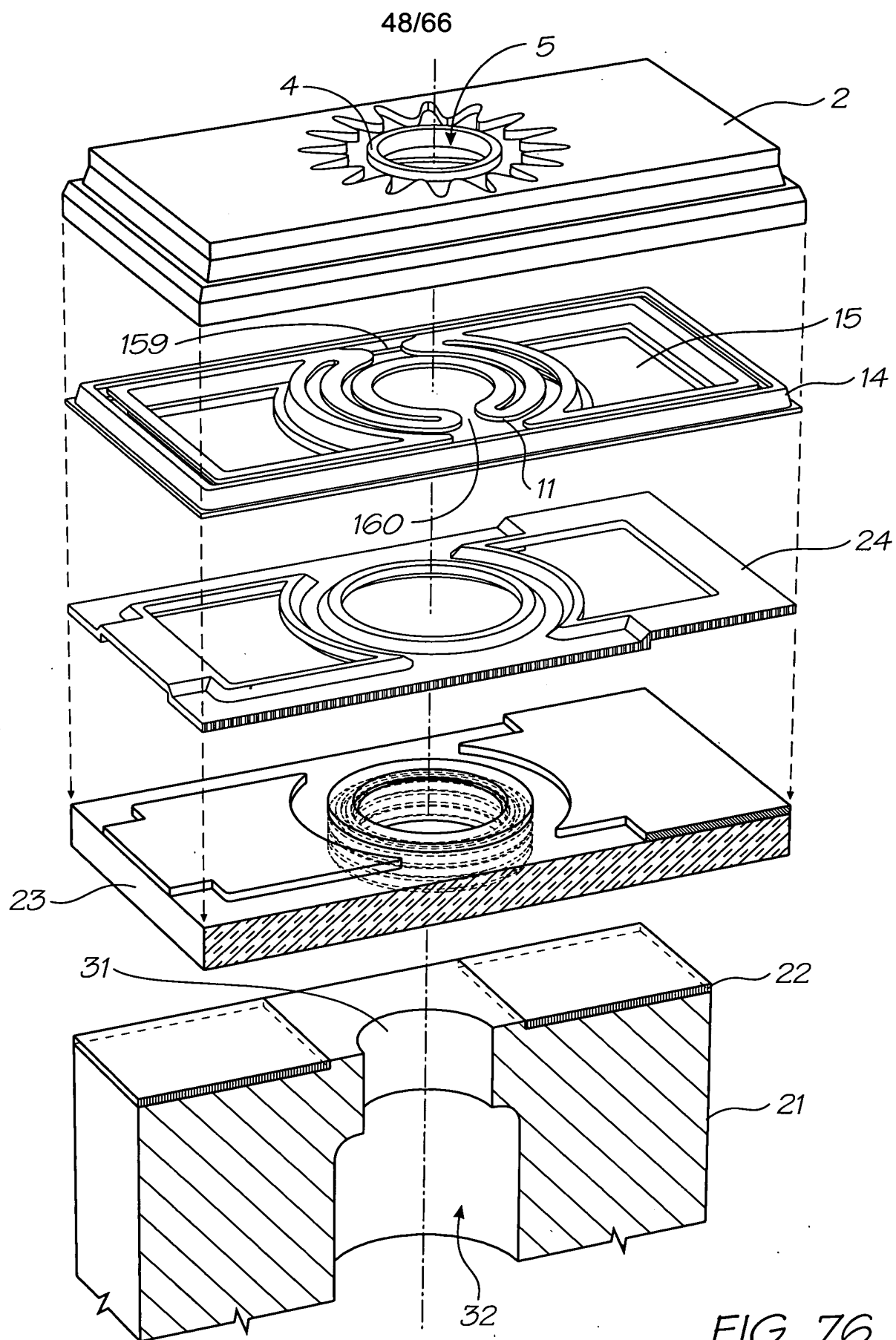
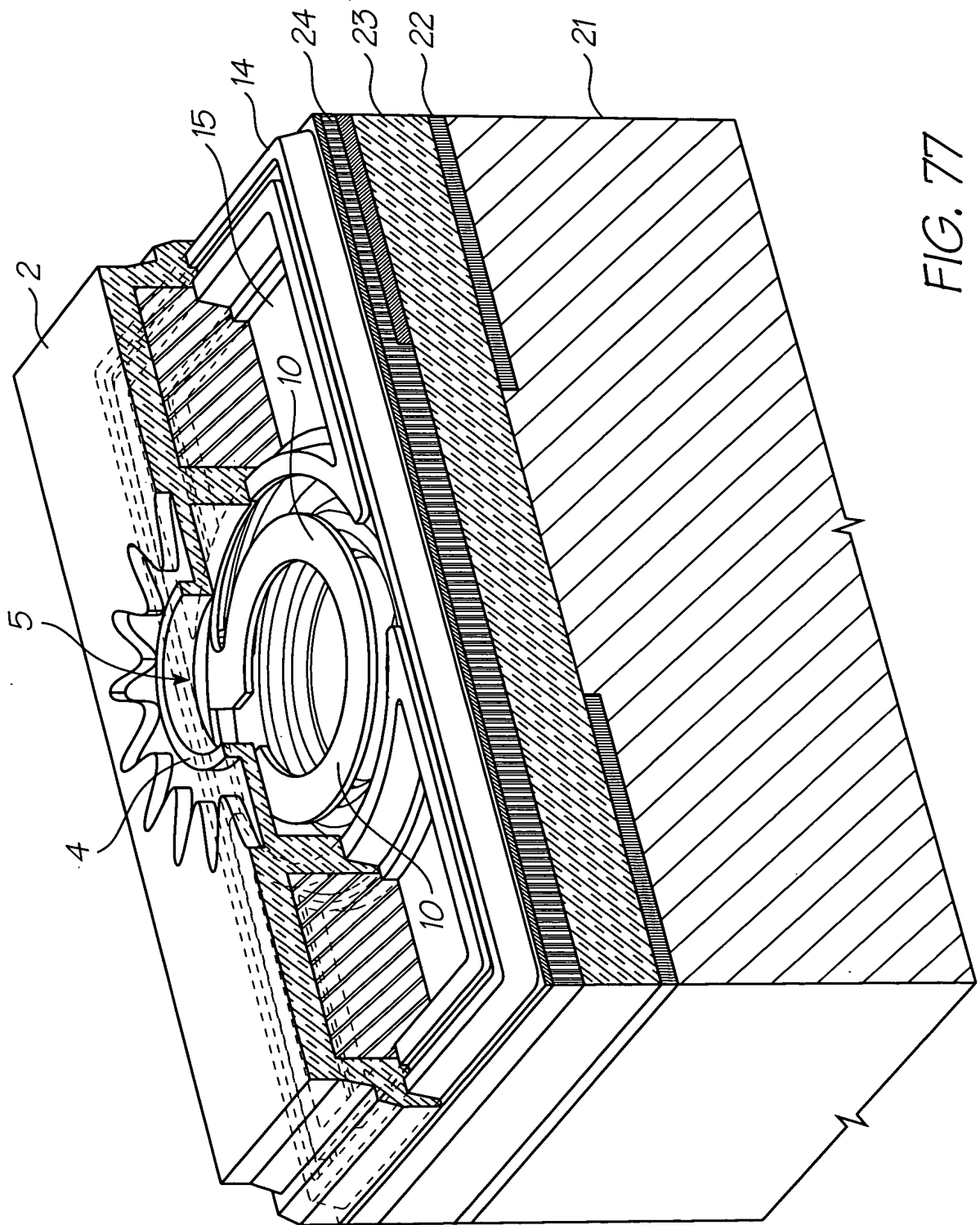


FIG. 76



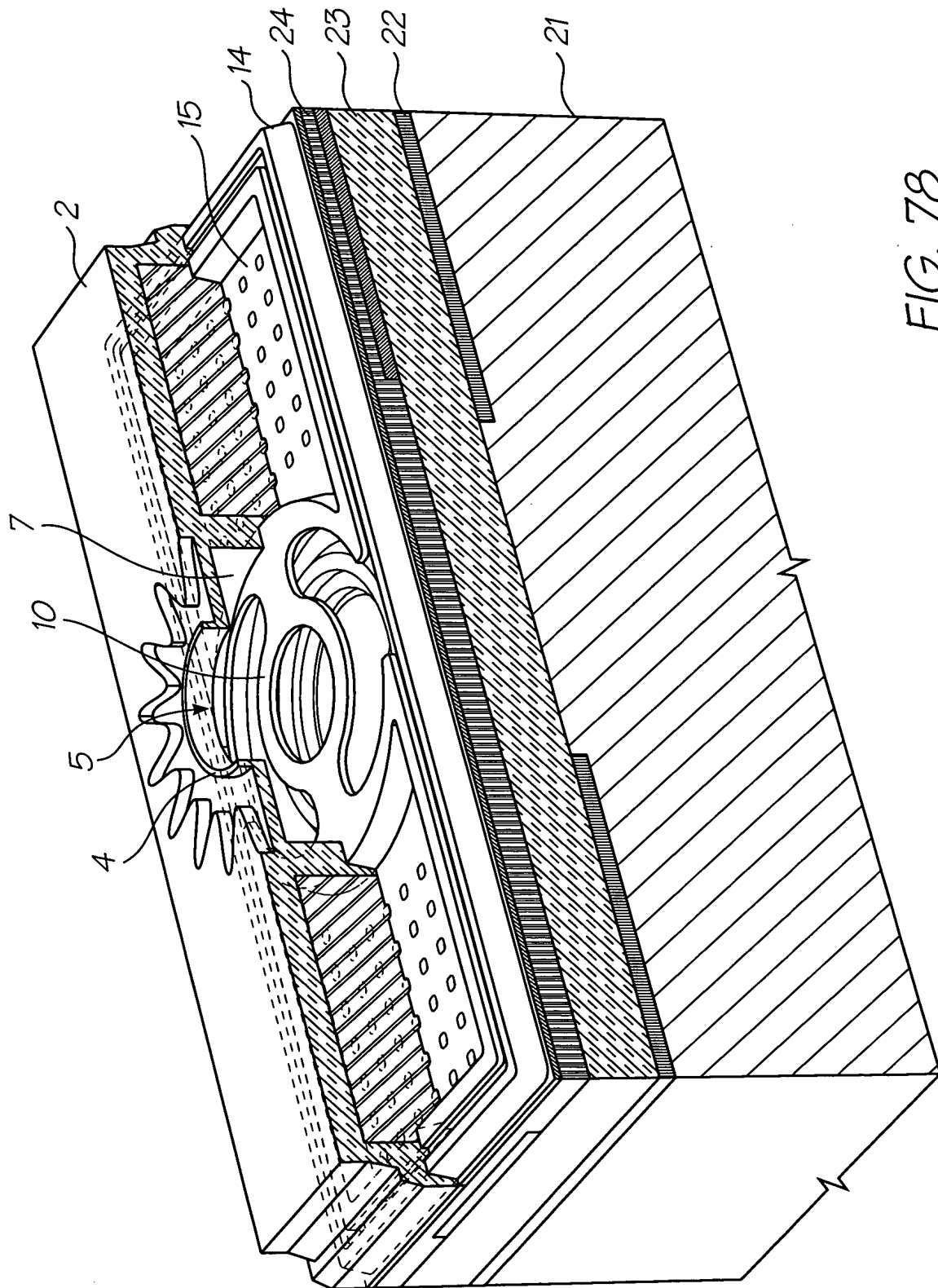


FIG. 78

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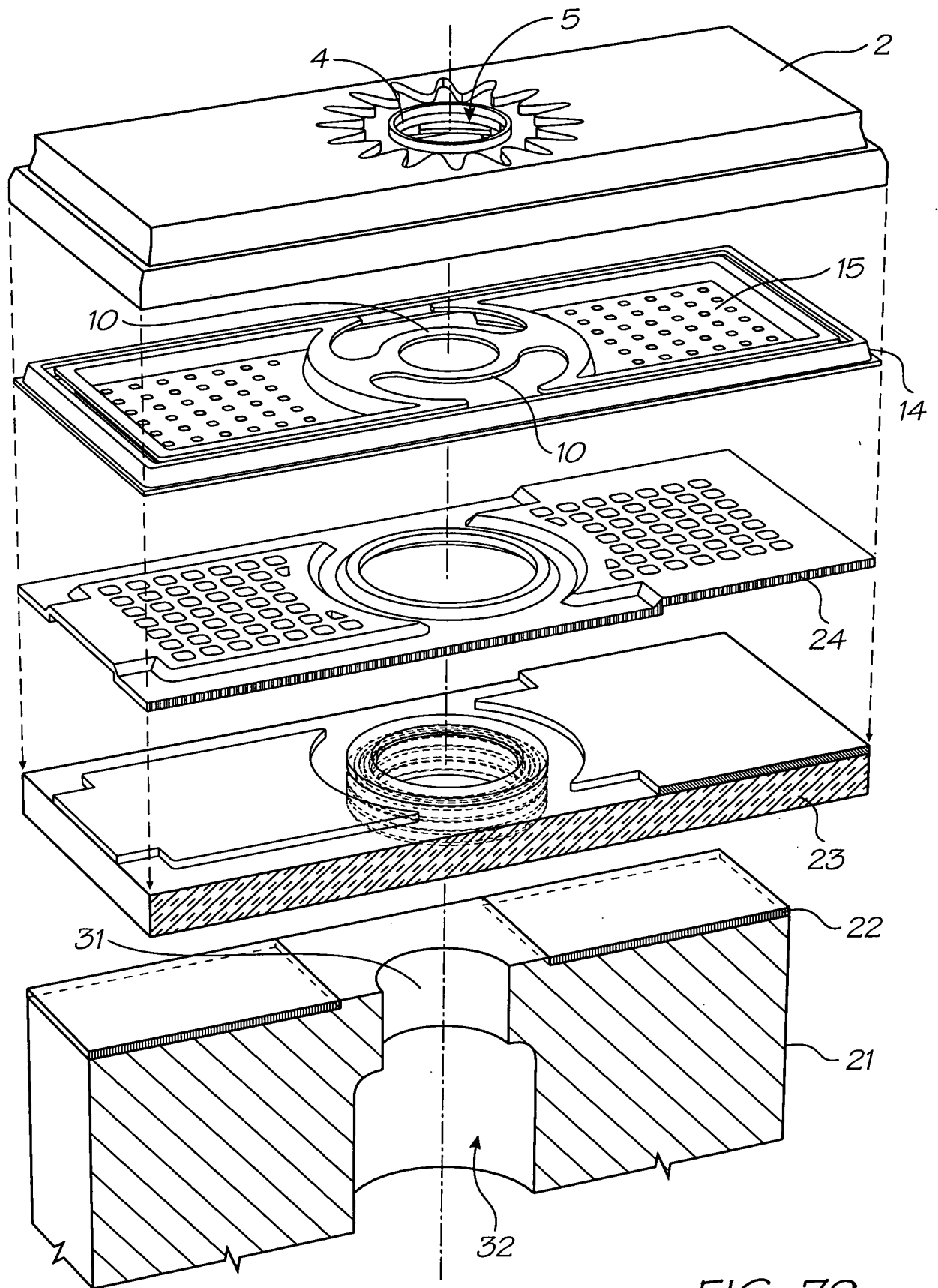


FIG. 79

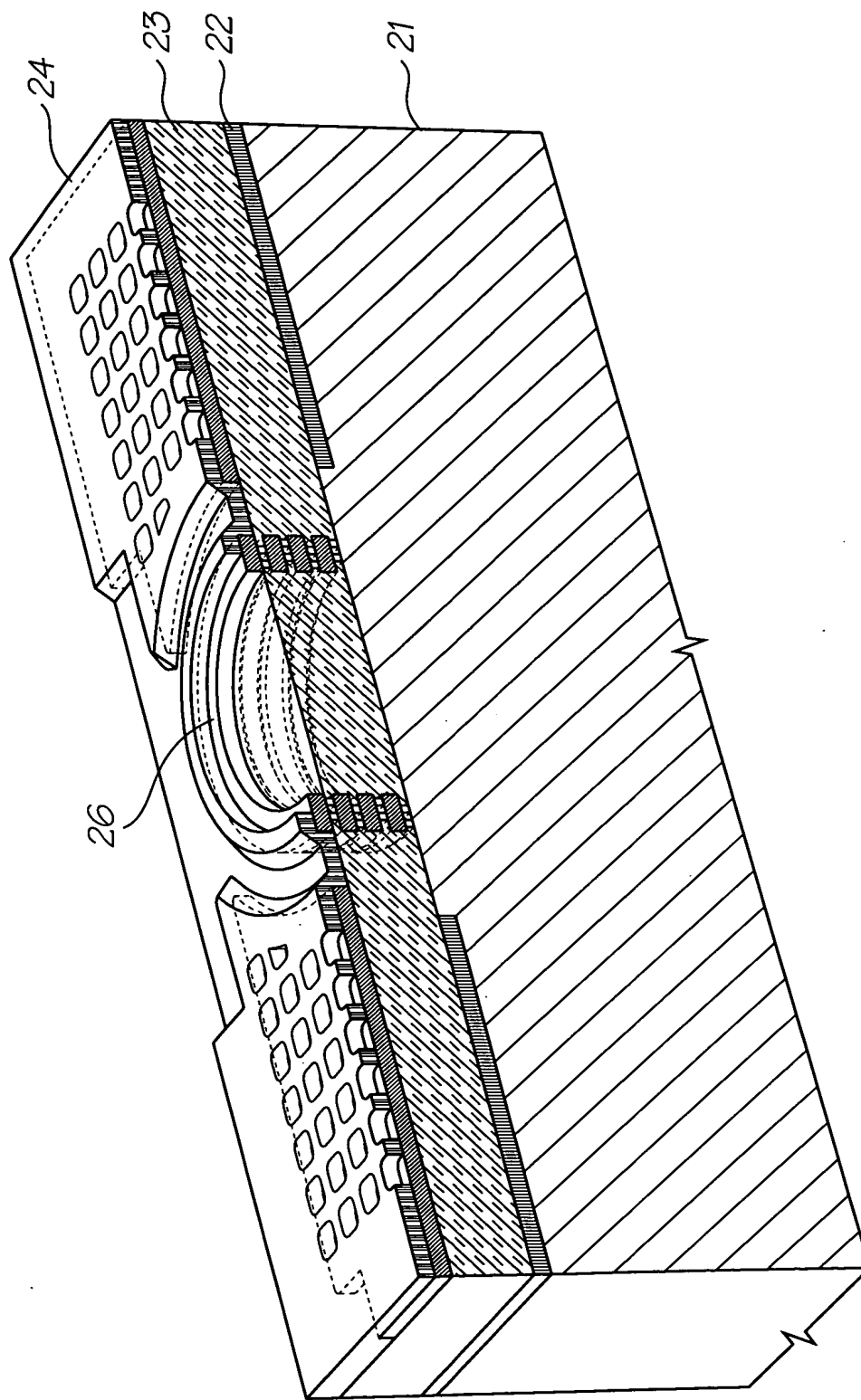


FIG. 80

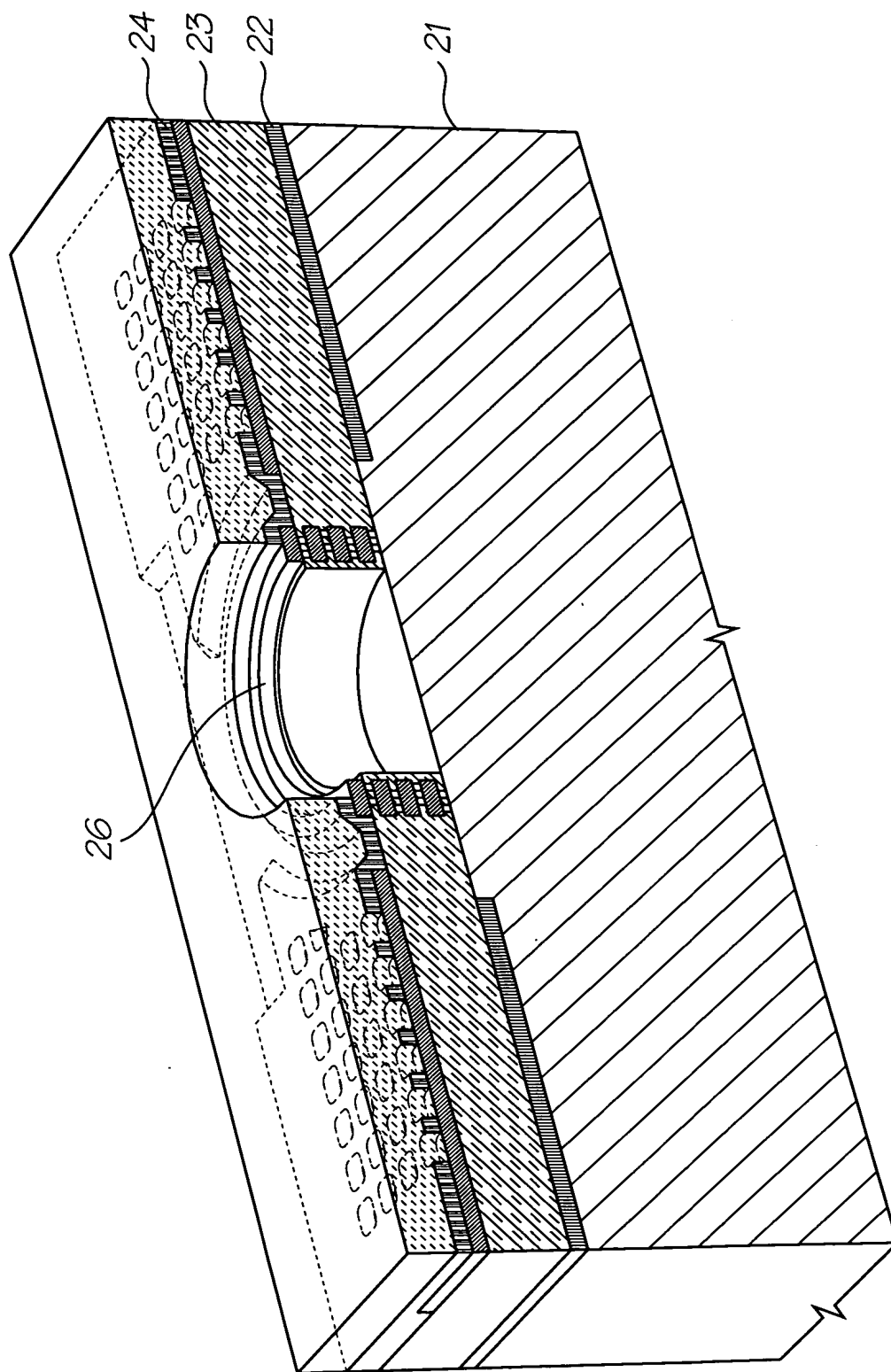


FIG. 81

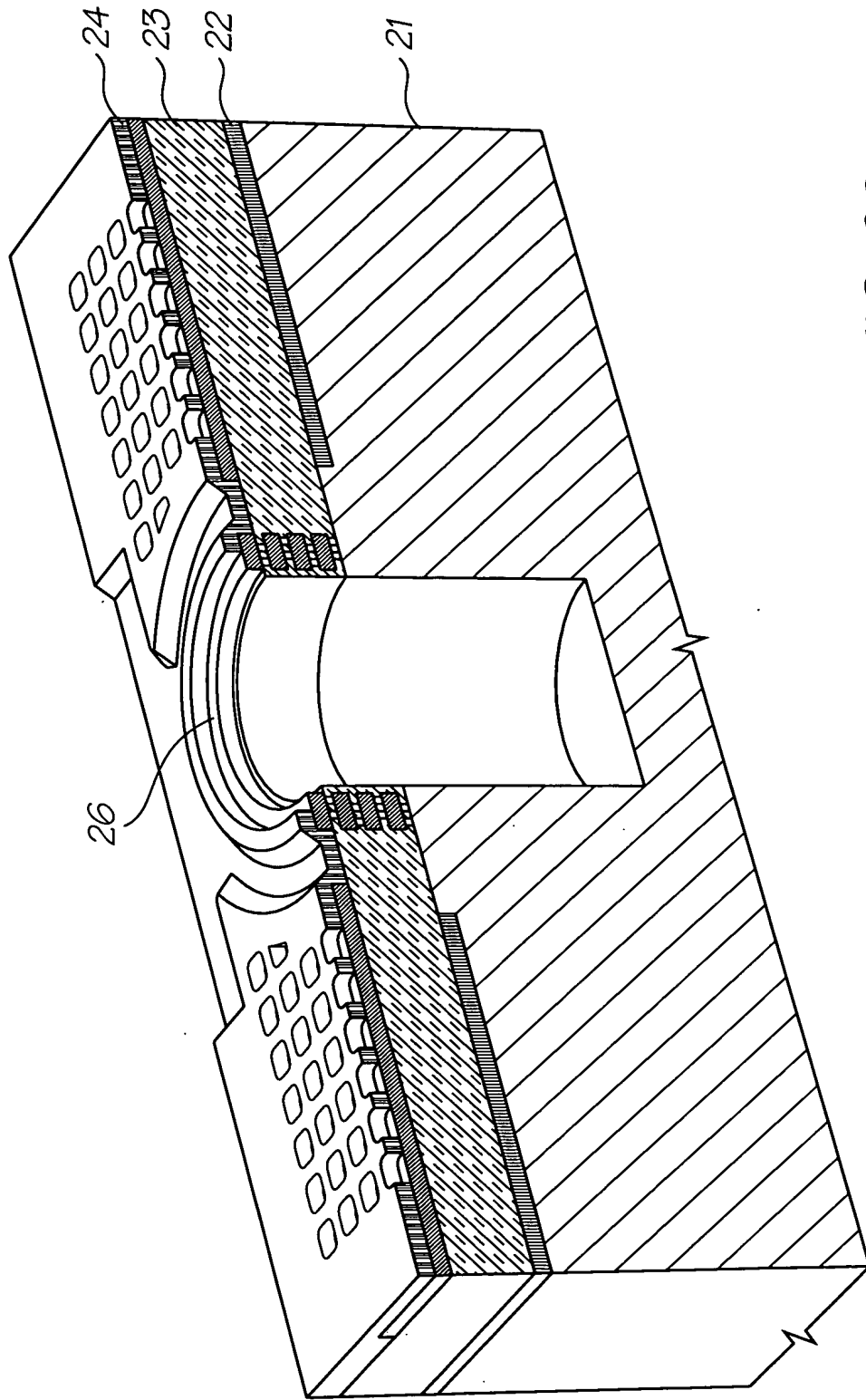


FIG. 82

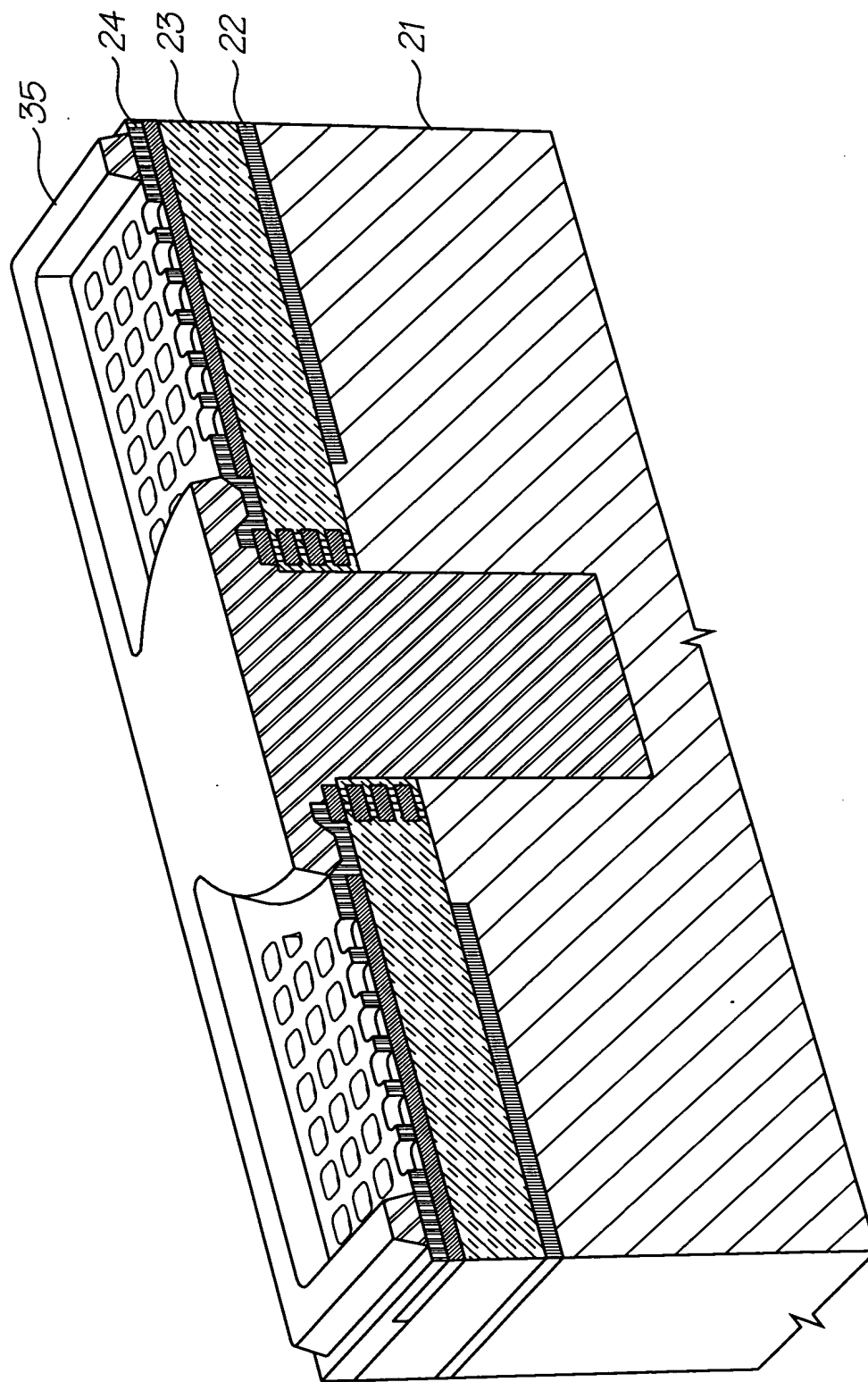


FIG. 83

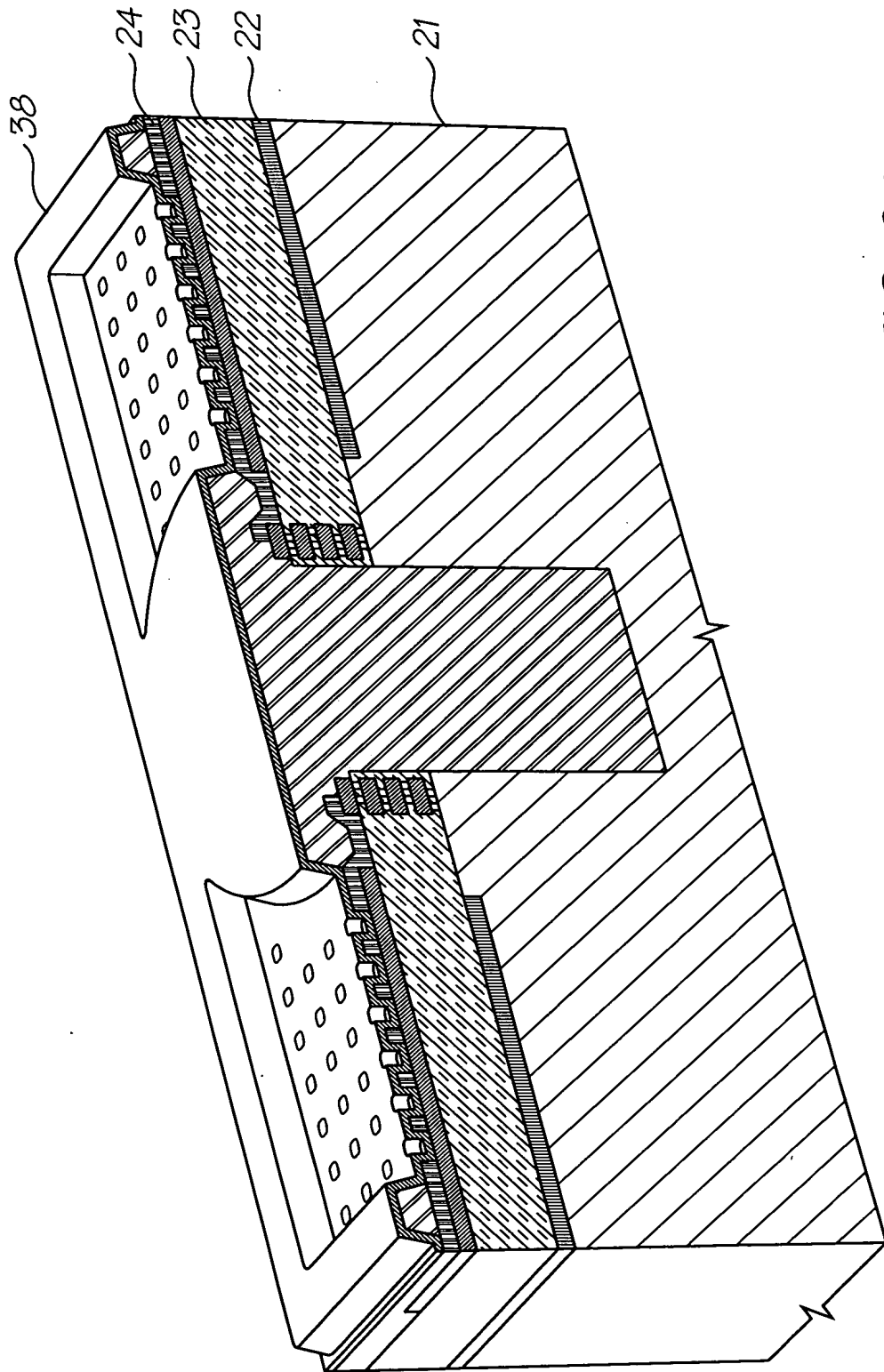


FIG. 84

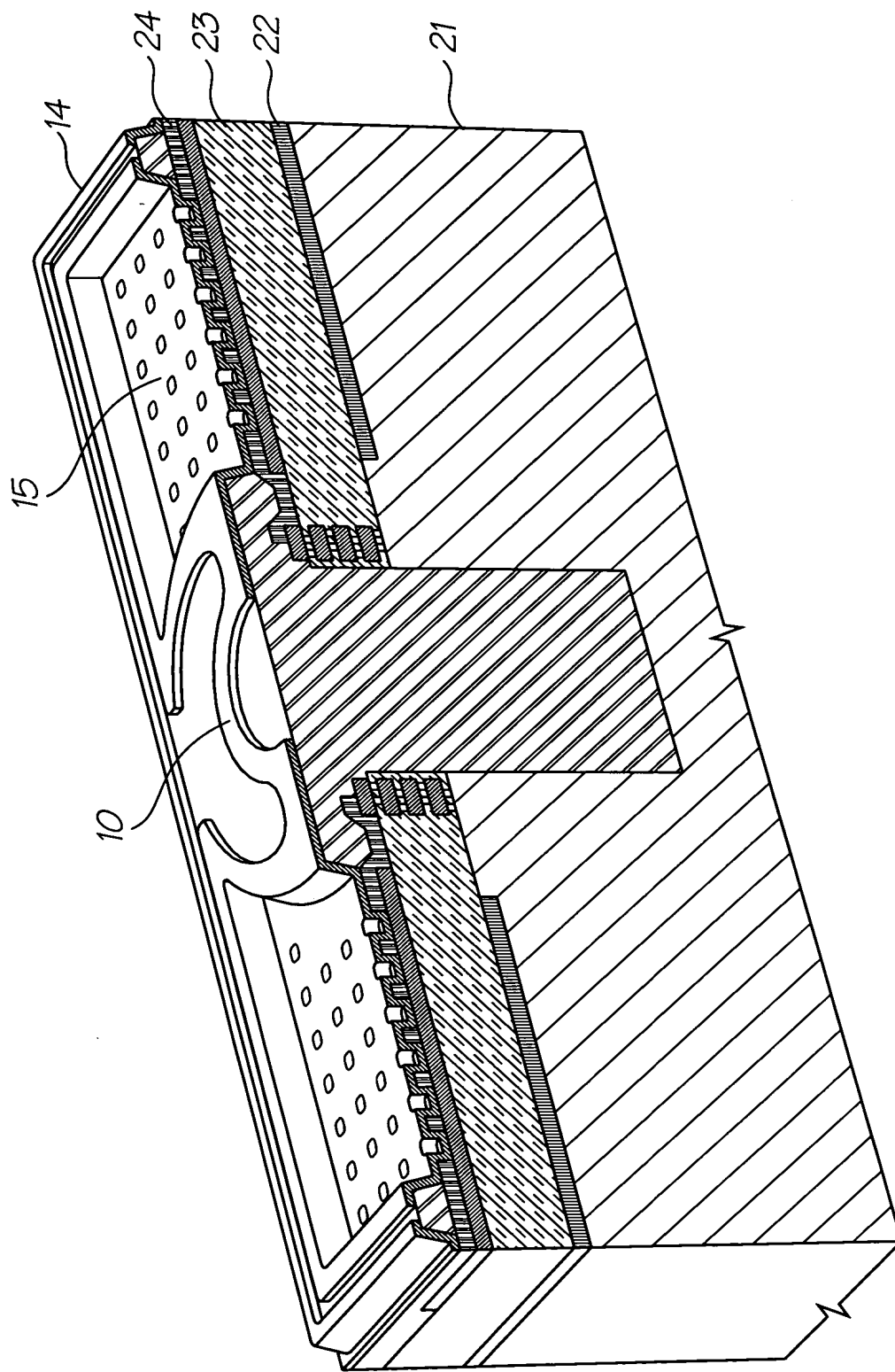


FIG. 85

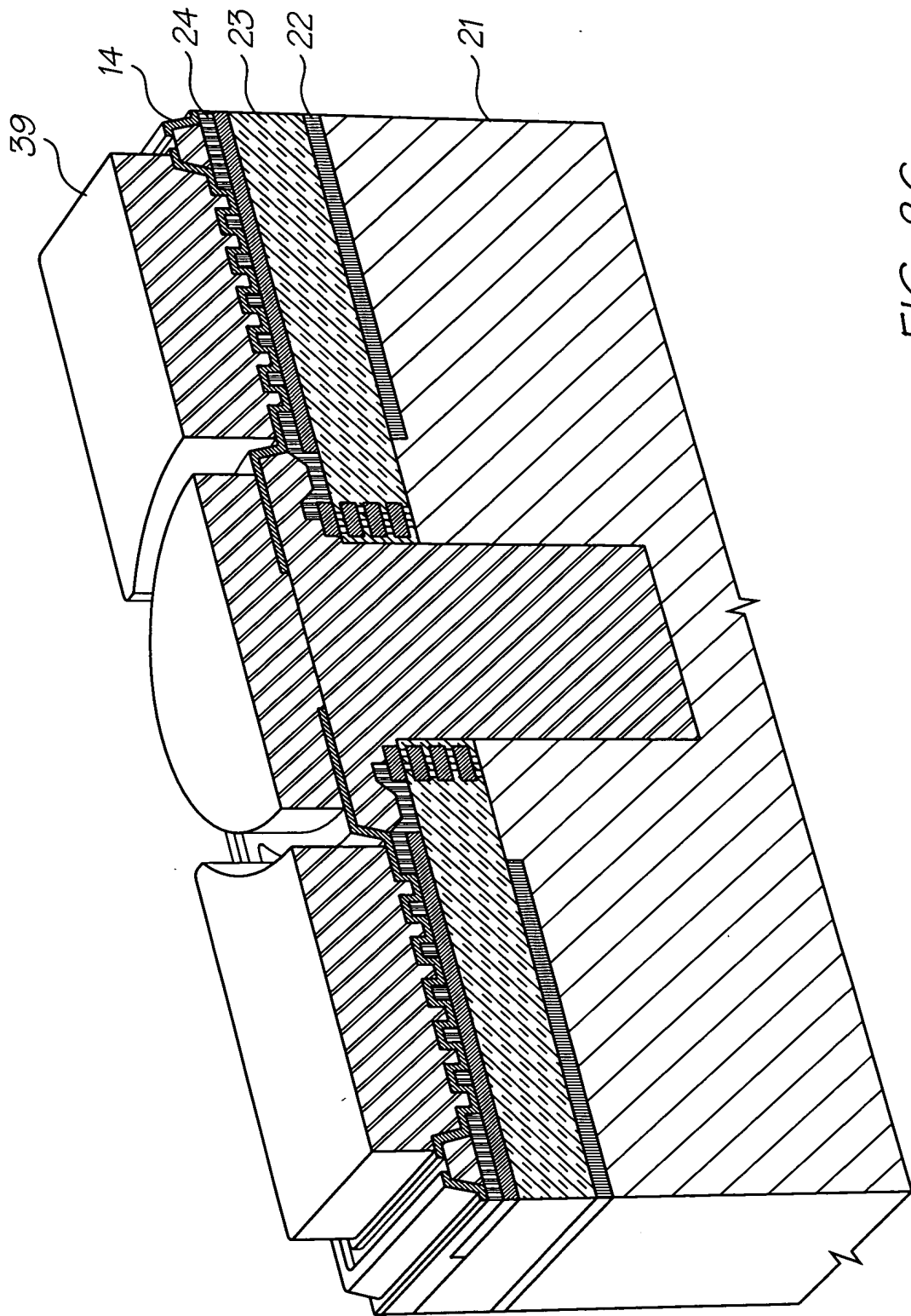


FIG. 86

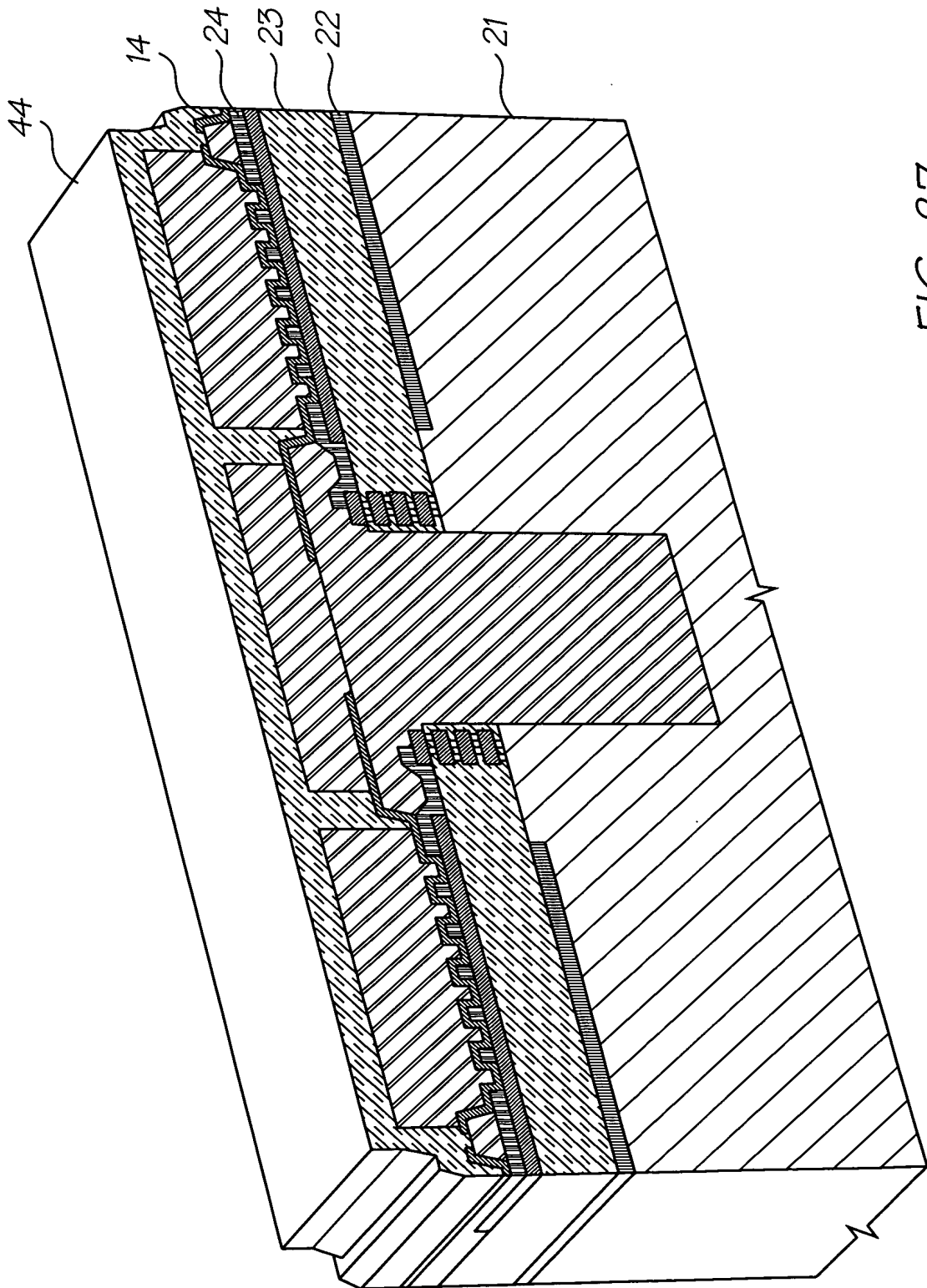


FIG. 87

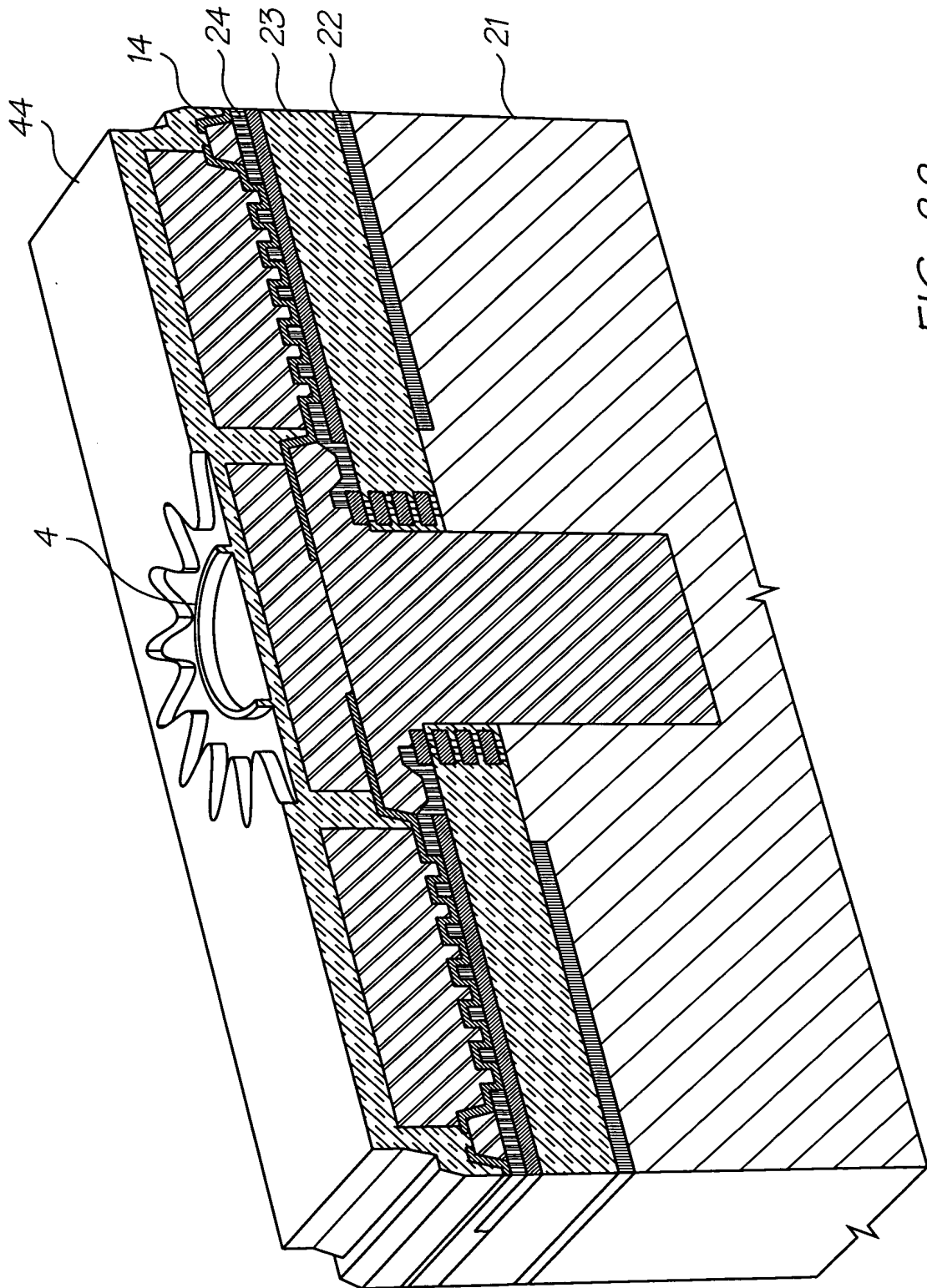


FIG. 88

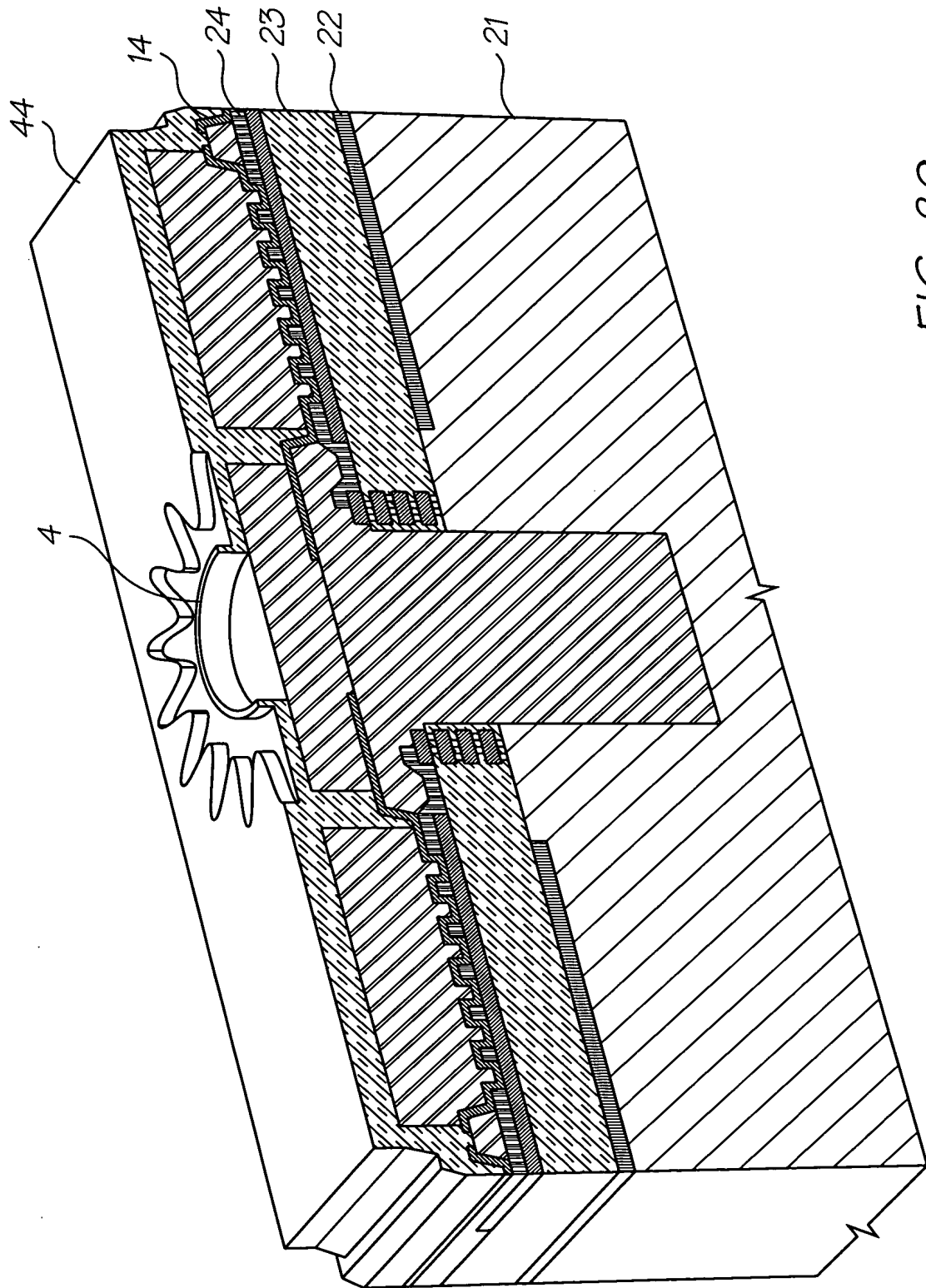


FIG. 89

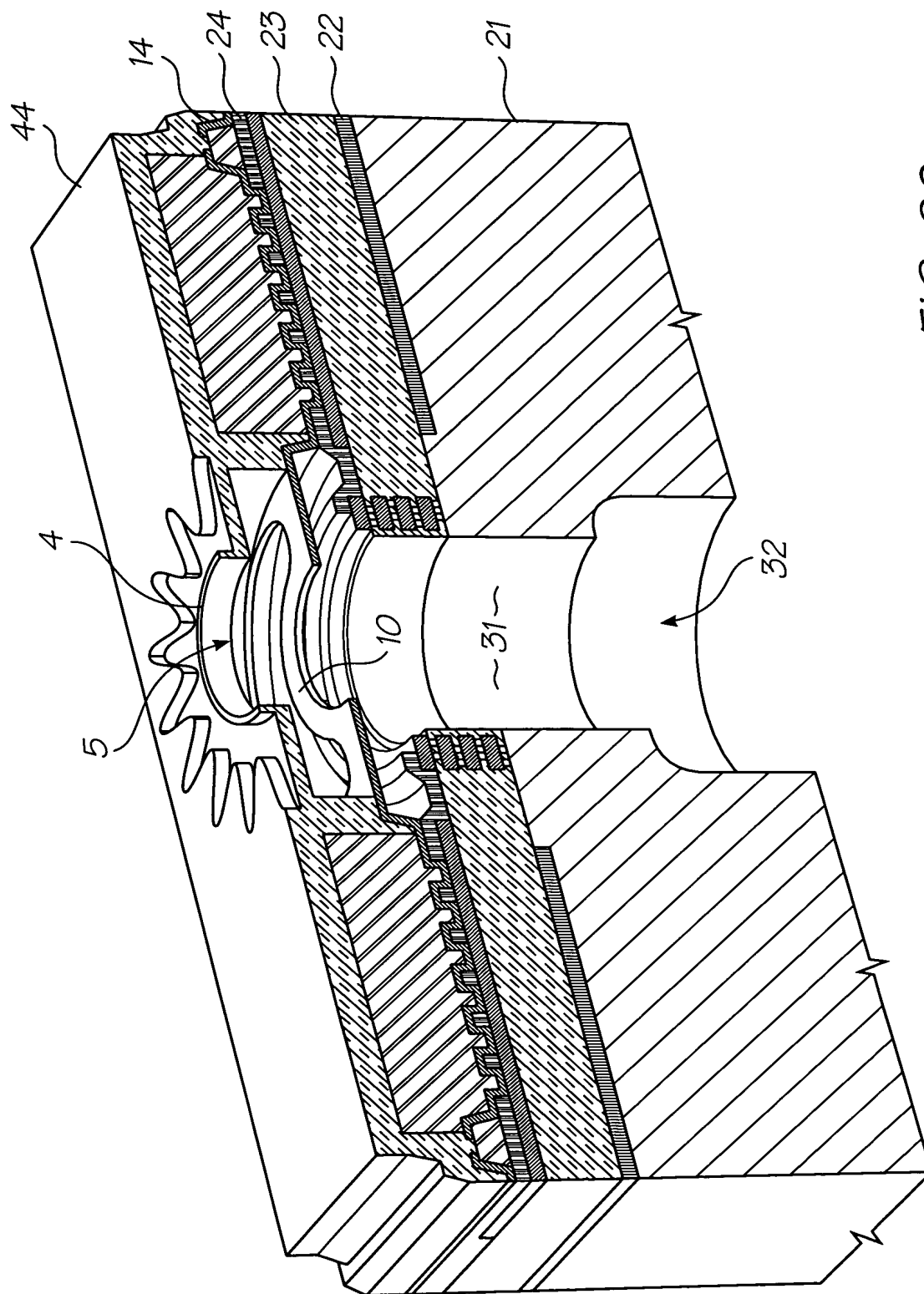


FIG. 90

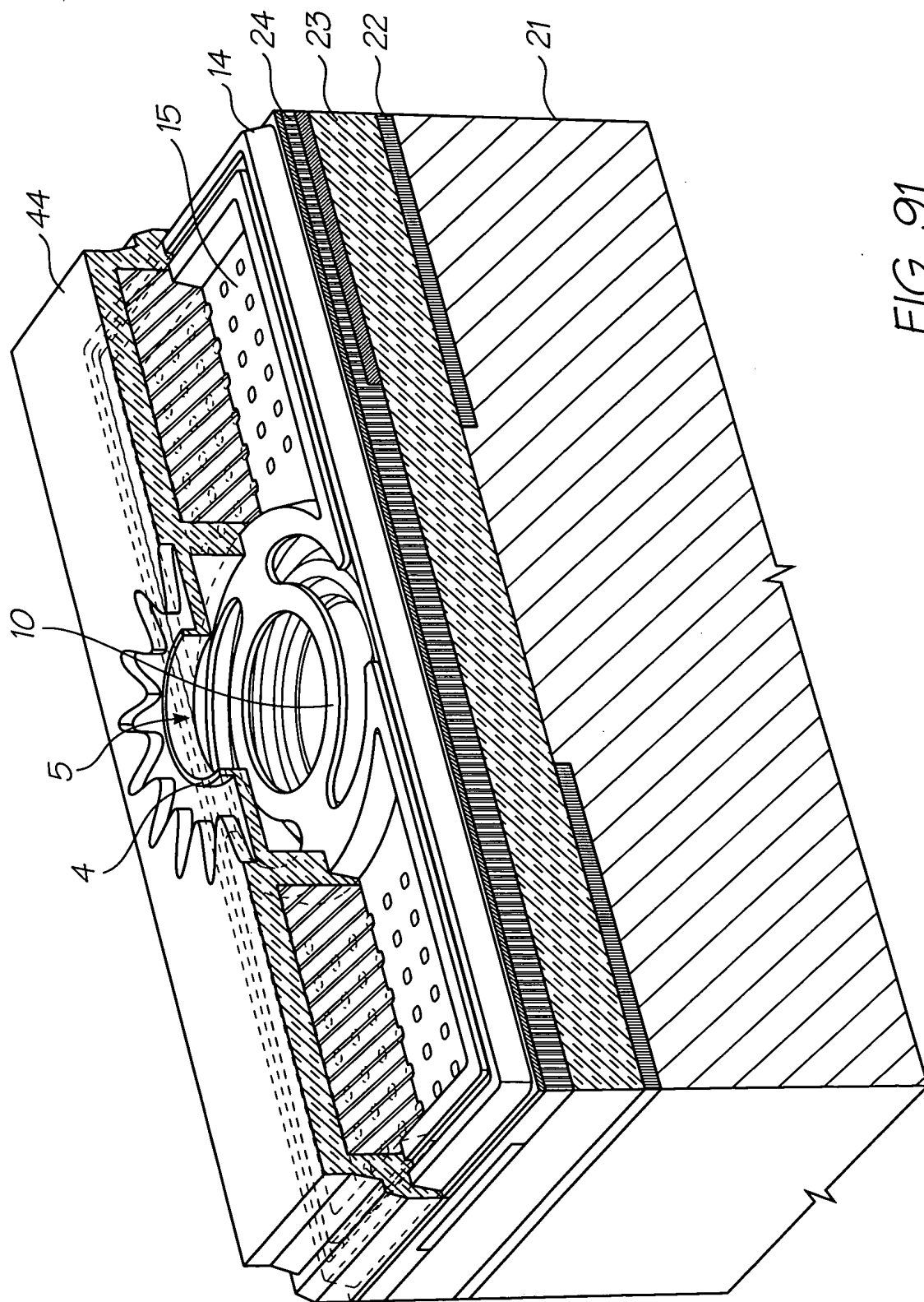


FIG. 91

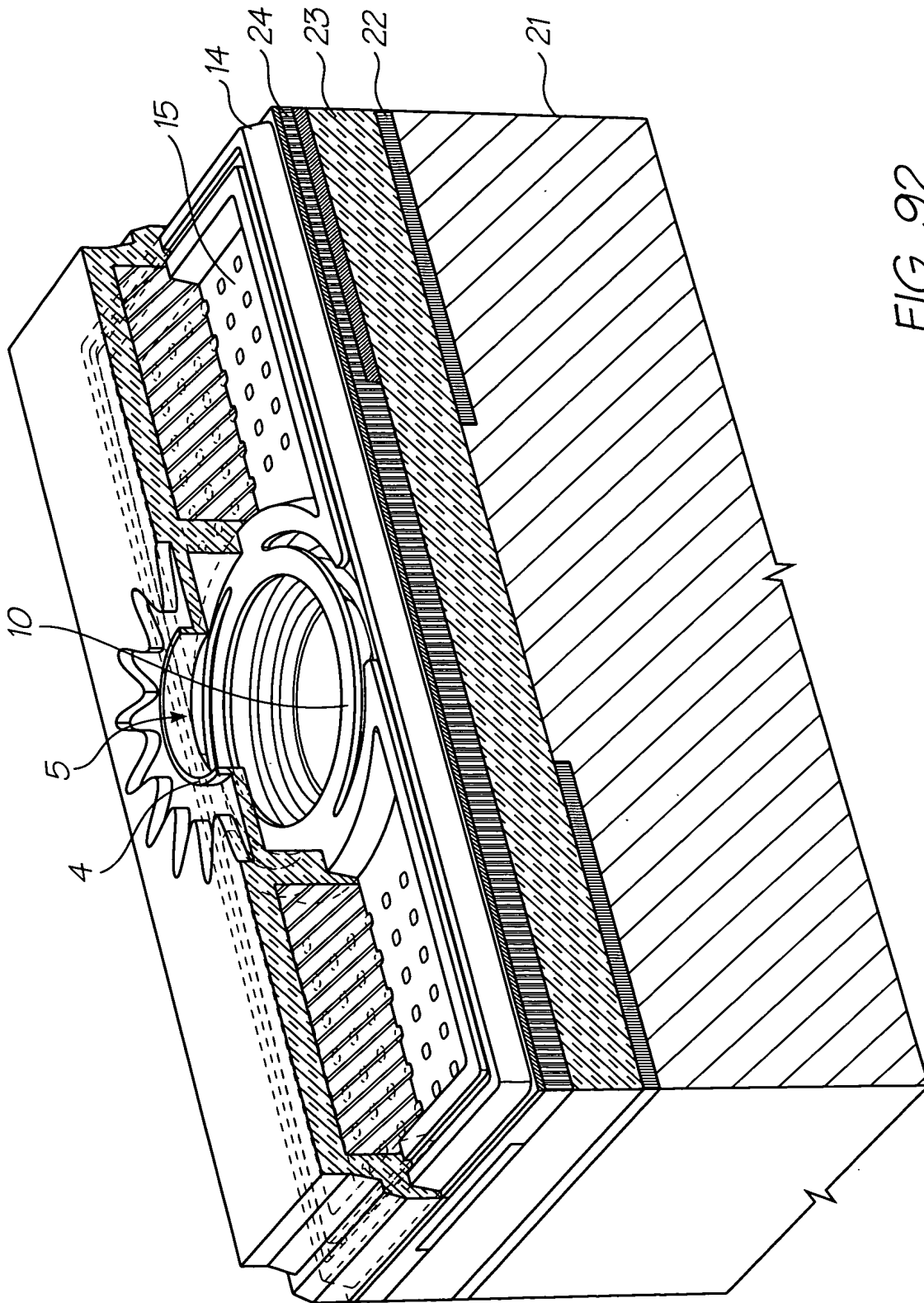


FIG. 92

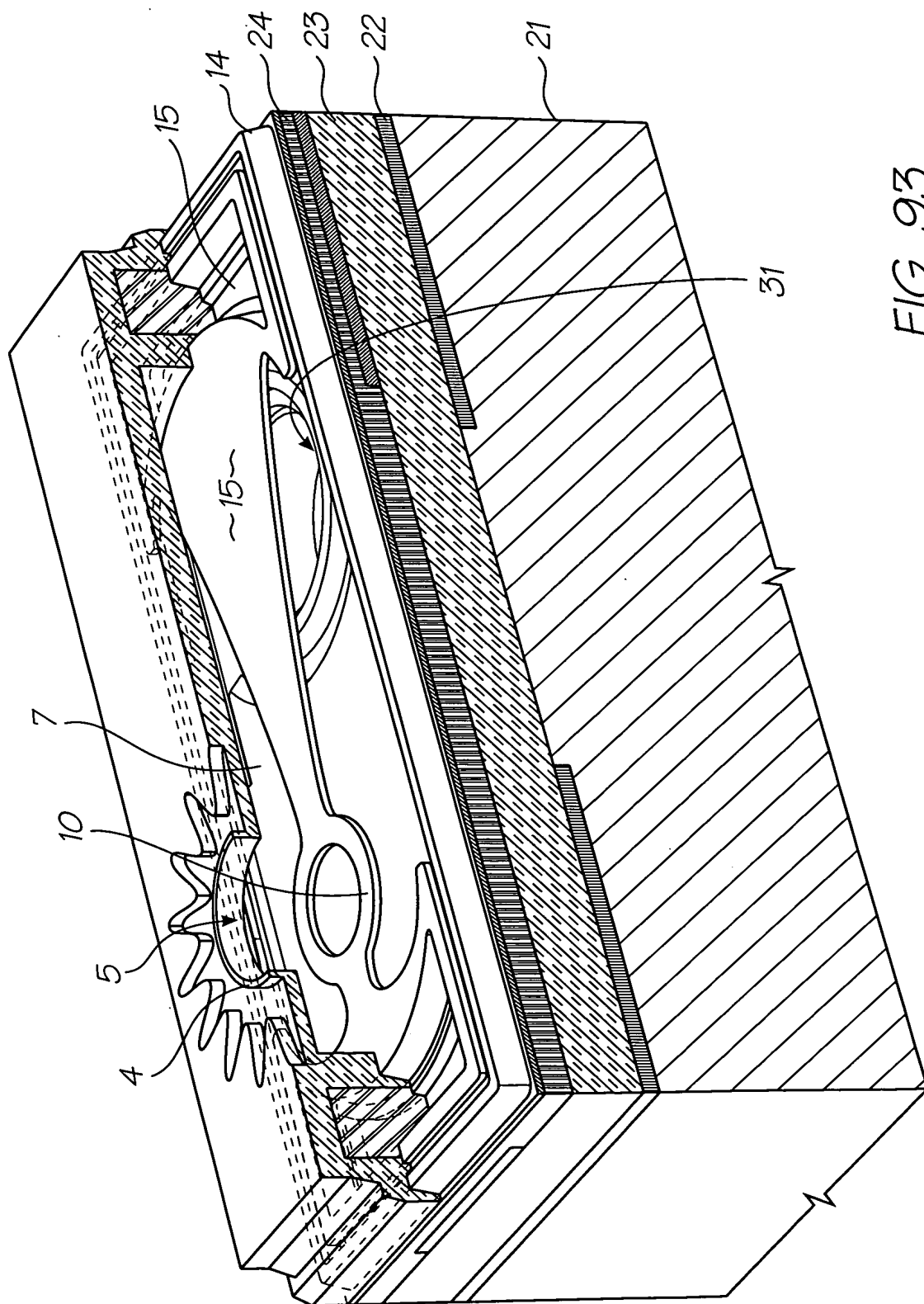


FIG. 93

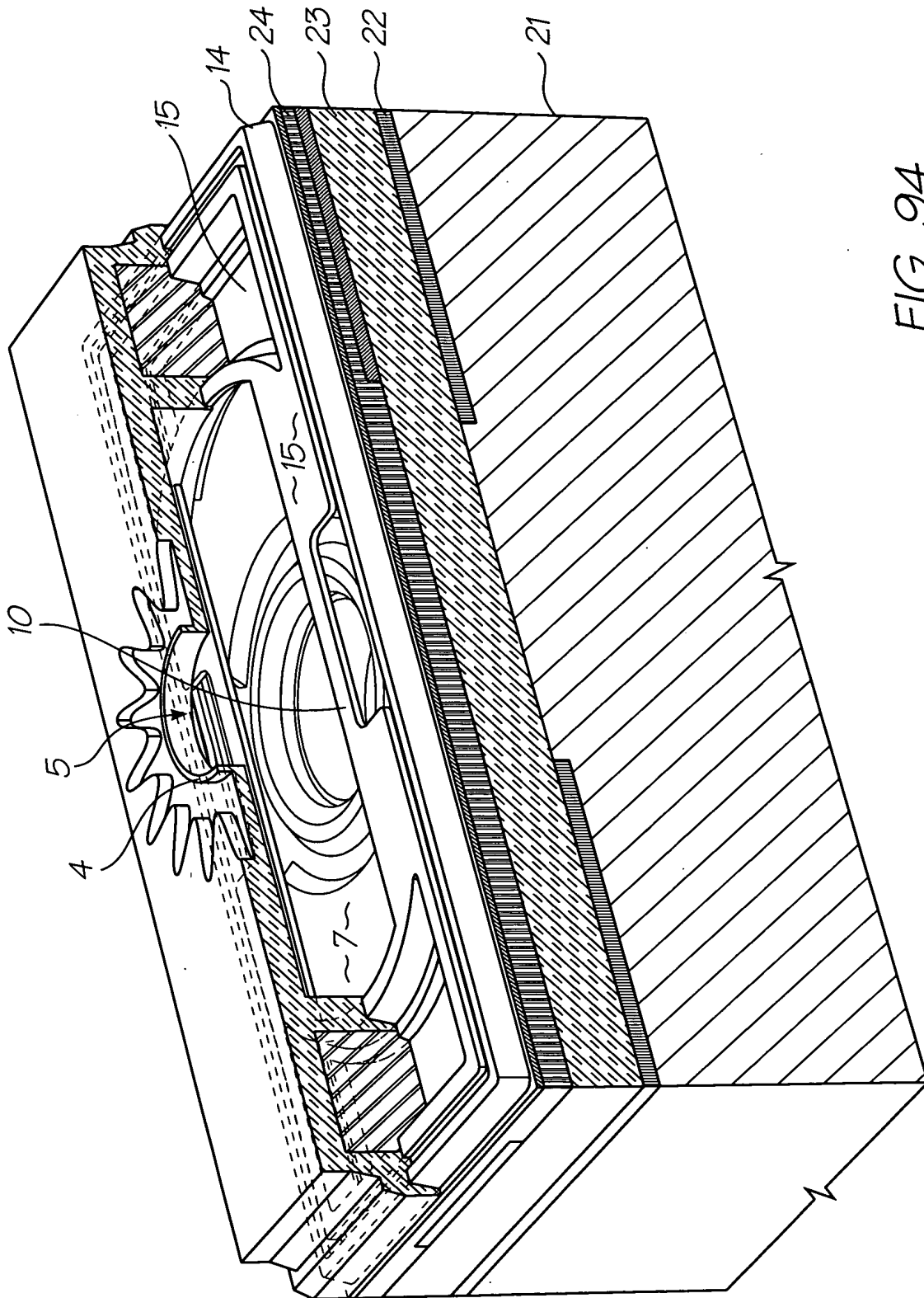


FIG. 94